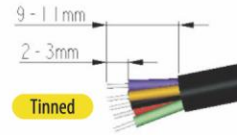


1. Mini Series, Assembly/Wiring Instructions.....P25
2. Mini Series, Front Panel Mount&Female Pin.....P26 - P28
3. Mini Series, Male Connector/ Female Pin.....P29 - P31
4. Mini Series, Front Panel Mount&Female Pin.....P32 - P33
5. Mini Series, Male Connector/ Male Pin.....P34
6. Mini Series, Female Connector/ Male Pin.....P35 - P36

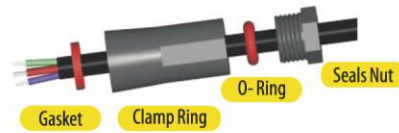




1 Strip and prepare Cable.



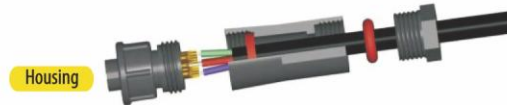
2 Thread Seals Nut, O- Ring, Clamp Ring and Gasket onto the cable.



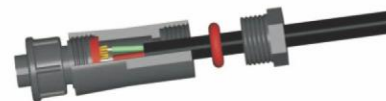
3 Solder wire



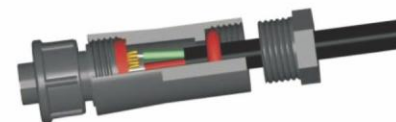
4 Assemble Gasket into Clamp ring: Gasket Direction (Flat Surface to Housing)



5 Assemble Clamp Ring to Housing



6 Put O-Ring to the Clamp Ring.



7 Assemble Seals Nut and Clamp Ring.





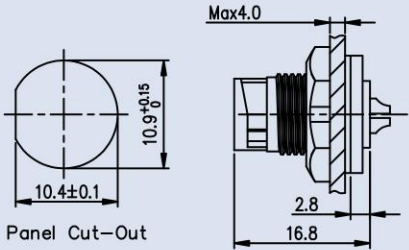
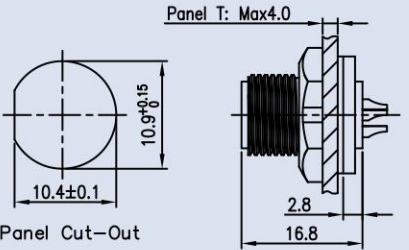
# MINI SERIES



## MINI Series Specifications

### Mini Series , Front Panel Mount & Male pin

|             |   |   |
|-------------|---|---|
| Description | Front Panel Mount<br>Lock Bayonet Type, Solder                                    | Front Panel Mount<br>Screw Type, Solder   |
| Figure      |  |  |

|         |  |   |
|---------|--|---|
| Drawing |  |  |
|---------|--|---|

| Part-No. | Lock Bayonet Type |             |   | Screw Type |             |   |
|----------|-------------------|-------------|---|------------|-------------|---|
|          | Contacts          | Part-Number | Logo  | Contacts   | Part-Number | Logo  |
|          | 2                 | 21002525-01 |  | 2          | 21002515-01 |  |
|          | 3                 | 21003525-01 |  | 3          | 21003515-01 |  |
|          | 4(5A)             | 21004525-01 |   | 4(5A)      | 21004515-01 |   |
|          | 4(2A)             | 21004525-02 |   | 4(2A)      | 21004515-02 |   |
|          | 5                 | 21005525-01 |  | 5          | 21005515-01 |  |
|          | 6                 | 21006525-01 |  | 6          | 21006515-01 |  |
|          | 2+4               | 21204525-01 |   | 2+4        | 21204515-01 |   |
|          | 7                 | 21007525-01 |  | 7          | 21007515-01 |  |
|          | 8                 | 21008525-01 |  | 8          | 21008515-01 |  |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Panel Thickness          | Max. 4.0mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 45°C - 105°C               |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

# MINI SERIES



## MINI Series Specifications

### Mini Series , Front Panel Mount & Male pin

|             |   |                                      |
|-------------|---|--------------------------------------|
| Description | Front Panel Mount<br>Lock Bayonet Type, PCB | Front Panel Mount<br>Screw Type, PCB |
| Figure      |   |                                      |

|         |  |  |
|---------|--|--|
| Drawing | <p>2~4Pin(5A),L=4.7mm<br/>4~8Pin(2A),L=3mm<br/>2+4Pin(5+2A),3mm</p> <p>Panel Cut-Out</p> | <p>2~4Pin(5A),L=4.7mm<br/>4~8Pin(2A),L=3mm<br/>2+4Pin(5+2A),3mm</p> <p>Panel Cut-Out</p> |
|---------|--|--|

| Part-No. | Lock Bayonet Type |             | Screw Type |             |
|----------|-------------------|-------------|------------|-------------|
|          | Contacts          | Part-Number | Contacts   | Part-Number |
|          | 2                 | 21002525-02 | 2          | 21002515-02 |
|          | 3                 | 21003525-02 | 3          | 21003515-02 |
|          | 4(2A)             | 21004525-05 | 4(2A)      | 21004515-05 |
|          | 4(5A)             | 21004525-06 | 4(5A)      | 21004515-06 |
|          | 5                 | 21005525-02 | 5          | 21005515-02 |
|          | 6                 | 21006525-02 | 6          | 21006515-02 |
|          | 2+4               | 21204525-02 | 2+4        | 21204515-02 |
|          | 7                 | 21007525-02 | 7          | 21007515-02 |
|          | 8                 | 21008525-02 | 8          | 21008515-02 |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Panel Thickness          | Max. 4.0mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 45°C - 105°C               |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |


Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

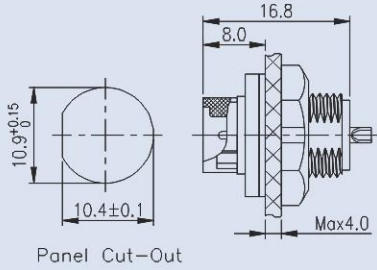
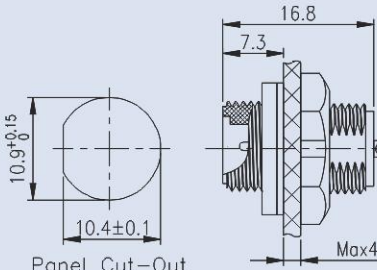
# MINI SERIES



## MINI Series Specifications

### Mini Series , Rear Panel Mount & Male pin

|             |   |   |
|-------------|---|---|
| Description | Rear Panel Mount<br>Lock Bayonet Type, Solder                                     | Rear Panel Mount<br>Screw Type, Solder  |
| Figure      |  |  |

|         |   |  |
|---------|---|--|
| Drawing |  <p>Panel Cut-Out</p> |  <p>Panel Cut-Out</p> |
|---------|---|--|

| Part-No. | Contacts | Part-Number   | Contacts | Part-Number   |
|----------|----------|---|----------|---|
|          | 2        | 21002525-03  | 2        | 21002515-03  |
|          | 3        | 21003525-03  | 3        | 21003515-03  |
|          | 4(5A)    | 21004525-03   | 4(5A)    | 21004515-03   |
|          | 4(2A)    | 21004525-04   | 4(2A)    | 21004515-04   |
|          | 5        | 21005525-03  | 5        | 21005515-03  |
|          | 6        | 21006525-03  | 6        | 21006515-03  |
|          | 2+4      | 21204525-03   | 2+4      | 21204515-03   |
|          | 7        | 21007525-03  | 7        | 21007515-03  |
|          | 8        | 21008525-03  | 8        | 21008515-03  |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Panel Thickness          | Max. 4.0mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 45°C - 105°C               |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

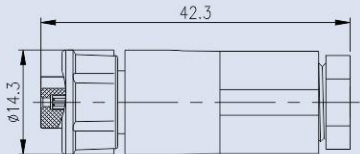
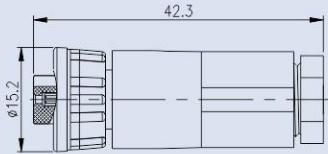
# MINI SERIES















## MINI Series Specifications

### Mini Series, Male connector & Female pin

|             |   |   |
|-------------|---|---|
| Description | Field Installable, 180°<br>Lock Bayonet Type, Solder                              | Field Installable, 180°<br>Screw Type, Solder                                       |
| Figure      |  |  |

|         |   |  |
|---------|---|--|
| Drawing |  |  |
|---------|---|--|

| Part-No. | Male Connector |                 |   | Female Connector |                 |   |
|----------|----------------|-----------------|---|------------------|-----------------|---|
|          | Contacts       | Cable Range(mm) | Part-Number   | Contacts         | Cable Range(mm) | Part-Number   |
|          | 2              | 3.5 - 6.8       | 21002221-01  | 2                | 3.5 - 6.8       | 21002211-01  |
|          | 3              | 3.5 - 6.8       | 21003221-01  | 3                | 3.5 - 6.8       | 21003211-01  |
|          | 4(5A)          | 3.5 - 6.8       | 21004221-01   | 4(5A)            | 3.5 - 6.8       | 21004211-01   |
|          | 4(2A)          | 3.5 - 6.8       | 21004221-02   | 4(2A)            | 3.5 - 6.8       | 21004211-02   |
|          | 5              | 3.5 - 6.8       | 21005221-01  | 5                | 3.5 - 6.8       | 21005211-01  |
|          | 6              | 3.5 - 6.8       | 21006221-01  | 6                | 3.5 - 6.8       | 21006211-01  |
|          | 2+4            | 3.5 - 6.8       | 21204221-01   | 2+4              | 3.5 - 6.8       | 21204211-01   |
|          | 7              | 3.5 - 6.8       | 21007221-01  | 7                | 3.5 - 6.8       | 21007211-01  |
|          | 8              | 3.5 - 6.8       | 21008221-01  | 8                | 3.5 - 6.8       | 21008211-01  |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Cable Range              | 3.5mm - 6.8mm                |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 45°C - 105°C               |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

# MINI SERIES



## MINI Series Specifications

### Mini Series , Male connector & Female pin

|             |   |                                    |
|-------------|---|------------------------------------|
| Description | Molded, 180°<br>Lock Bayonet Type, Solder | Molded, 180°<br>Screw Type, Solder |
| Figure      |   |                                    |

|         |  |  |
|---------|--|--|
| Drawing |  |  |
|---------|--|--|

| Part-No. | Male Connector |                 |                 | Female Connector |                 |                 |
|----------|----------------|-----------------|-----------------|------------------|-----------------|-----------------|
|          | Contacts       | Cable Range(mm) | Part-Number     | Contacts         | Cable Range(mm) | Part-Number     |
|          | 2              | max7.2          | 21002223-01-XXX | 2                | max7.2          | 21002213-01-XXX |
|          | 3              | max7.2          | 21003223-01-XXX | 3                | max7.2          | 21003213-01-XXX |
|          | 4(5A)          | max7.2          | 21004223-01-XXX | 4(5A)            | max7.2          | 21004213-01-XXX |
|          | 4(2A)          | max7.2          | 21004223-02-XXX | 4(2A)            | max7.2          | 21004213-02-XXX |
|          | 5              | max7.2          | 21005223-01-XXX | 5                | max7.2          | 21005213-01-XXX |
|          | 6              | max7.2          | 21006223-01-XXX | 6                | max7.2          | 21006213-01-XXX |
|          | 2+4            | max7.2          | 21204223-01-XXX | 2+4              | max7.2          | 21204213-01-XXX |
|          | 7              | max7.2          | 21007223-01-XXX | 7                | max7.2          | 21007213-01-XXX |
|          | 8              | max7.2          | 21008223-01-XXX | 8                | max7.2          | 21008213-01-XXX |

### Specifications



|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Cable Range              | Max. 7.2mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 40°C - 80°C                |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

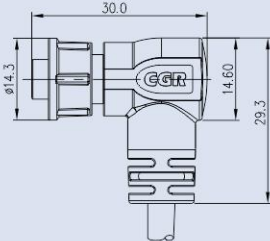
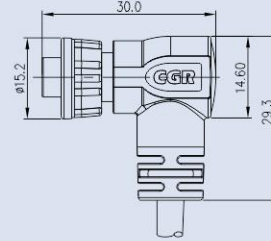
# MINI SERIES







## MINI Series Specifications

### Mini Series , Male connector & Female pin

|             |   |   |
|-------------|---|---|
| Description | Molded, 90°<br>Lock Bayonet Type, Solder  | Molded, 90°<br>Screw Type, Solder   |
| Figure      |  |  |

|         |  |   |
|---------|--|---|
| Drawing |  |  |
|---------|--|---|

| Part-No. | Male Connector |                 |   | Female Pin |                 |   |
|----------|----------------|-----------------|---|------------|-----------------|---|
|          | Contacts       | Cable Range(mm) | Part-Number   | Contacts   | Cable Range(mm) | Part-Number   |
|          | 2              | max7.2          | 21002224-02-XXX  | 2          | max7.2          | 21002214-02-XXX  |
|          | 3              | max7.2          | 21003224-02-XXX  | 3          | max7.2          | 21003214-02-XXX  |
|          | 4(5A)          | max7.2          | 21004224-02-XXX   | 4(5A)      | max7.2          | 21004214-02-XXX   |
|          | 4(2A)          | max7.2          | 21004224-03-XXX   | 4(2A)      | max7.2          | 21004214-03-XXX   |
|          | 5              | max7.2          | 21005224-02-XXX   | 5          | max7.2          | 21005214-02-XXX   |
|          | 6              | max7.2          | 21006224-02-XXX   | 6          | max7.2          | 21006214-02-XXX   |
|          | 2+4            | max7.2          | 21204224-02-XXX   | 2+4        | max7.2          | 21204214-02-XXX   |
|          | 7              | max7.2          | 21007224-02-XXX   | 7          | max7.2          | 21007214-02-XXX   |
|          | 8              | max7.2          | 21008224-02-XXX   | 8          | max7.2          | 21008214-02-XXX   |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Cable Range              | Max. 7.2mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67 (Mated)                 |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 40°C - 80°C                |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MINI SERIES



## MINI Series Specifications

### Mini Series , Front Panel Mount & Female pin

|             |  |   |
|-------------|--|---|
| Description | Front Panel Mount<br>Lock Bayonet Type, Solder | Front Panel Mount<br>Screw Type, Solder |
| Figure      |  |   |

|         |  |  |
|---------|--|--|
| Drawing |  |  |
|---------|--|--|

| Part-No. | Contacts | Part-Number | Contacts    | Part-Number |
|----------|----------|-------------|-------------|-------------|
|          |          | 2           | 21002625-01 | 2           |
|          | 3        | 21003625-01 | 3           | 21003615-01 |
|          | 4        | 21004625-01 | 4           | 21004615-01 |

|             |   |                                      |
|-------------|---|--------------------------------------|
| Description | Front Panel Mount<br>Lock Bayonet Type, PCB | Front Panel Mount<br>Screw Type, PCB |
| Figure      |   |                                      |

|         |  |  |
|---------|--|--|
| Drawing |  |  |
|---------|--|--|

| Part-No. | Contacts | Part-Number | Contacts    | Part-Number |
|----------|----------|-------------|-------------|-------------|
|          |          | 2           | 21002625-02 | 2           |
|          | 3        | 21003625-02 | 3           | 21003615-02 |
|          | 4        | 21004625-02 | 4           | 21004615-02 |

### Specifications

|                          |                              |   |                             |
|--------------------------|------------------------------|---|-----------------------------|
| Number of Contacts       | 2                            | 3 | 4                           |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |   | 0.34mm <sup>2</sup> (22AWG) |
| Panel Thickness          | Max. 4.0mm                   |   |                             |
| Environmental Protection | IP67 (Mated)                 |   |                             |
| Mechanical Life          | 500 mating cycles            |   |                             |
| Operating Temperature    | - 45°C - 105°C               |   |                             |
| Voltage Rating           | 50V                          |   |                             |
| Rated Current(40°C)      | 5A                           |   |                             |

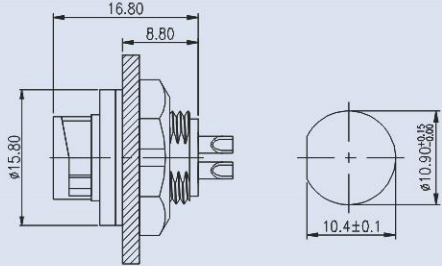
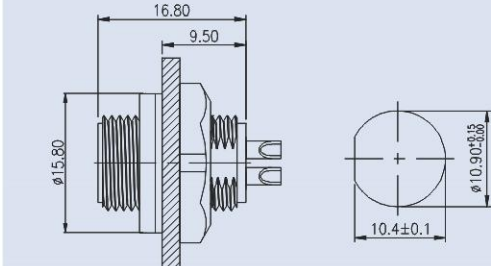
# MINI SERIES



## MINI Series Specifications

### Mini Series , Rear Panel Mount & Female pin

|             |   |   |
|-------------|---|---|
| Description | Rear Panel Mount<br>Lock Bayonet Type, Solder                                     | Rear Panel Mount<br>Screw Type, Solder  |
| Figure      |  |  |

|         |  |   |
|---------|--|---|
| Drawing |  |  |
|---------|--|---|

| Part-No. | Contacts | Part-Number | Contacts    | Part-Number |
|----------|----------|-------------|-------------|-------------|
|          |          | 2           | 21002625-03 | 2           |
|          | 3        | 21003625-03 | 3           | 21003615-03 |
|          | 4        | 21004625-03 | 4           | 21004615-03 |

### Specifications

| Number of Contacts       | 2                            | 3 | 4                           |
|--------------------------|------------------------------|---|-----------------------------|
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |   | 0.34mm <sup>2</sup> (22AWG) |
| Panel Thickness          | Max. 4.0mm                   |   |                             |
| Environmental Protection | IP67 (Mated)                 |   |                             |
| Mechanical Life          | 500 mating cycles            |   |                             |
| Operating Temperature    | - 45°C - 105°C               |   |                             |
| Voltage Rating           | 50V                          |   |                             |
| Rated Current(40°C)      | 5A                           |   |                             |

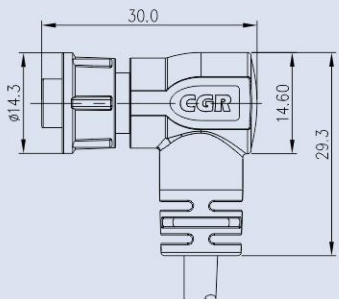
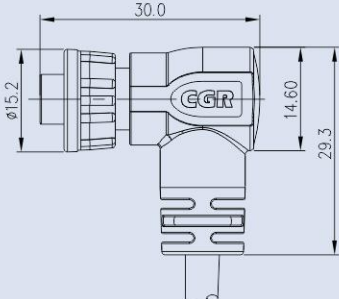
# MINI SERIES



## MINI Series Specifications

### Mini Series , Male connector & Male pin

|             |   |   |
|-------------|---|---|
| Description | Molded, 90°<br>Lock Bayonet Type, Solder  | Molded, 90°<br>Screw Type, Solder   |
| Figure      |  |  |

|         |  |   |
|---------|--|---|
| Drawing |  |  |
|---------|--|---|

| Part-No. | Contacts | Cable Range(mm) | Part-Number     | Contacts        | Cable Range(mm) | Part-Number     |
|----------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|
|          |          | 2               | Max. 7.2        | 21002124-02-XXX | 2               | Max. 7.2        |
|          | 3        | Max. 7.2        | 21003124-02-XXX | 3               | Max. 7.2        | 21003114-02-XXX |
|          | 4        | Max. 7.2        | 21004124-02-XXX | 4               | Max. 7.2        | 21004114-02-XXX |

| Specifications           |                              |                             |                             |
|--------------------------|------------------------------|-----------------------------|-----------------------------|
| Number of Contacts       | 2                            | 3                           | 4                           |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |                             |
| Cable Range              | 0.519mm <sup>2</sup> (20AWG) |                             | 0.34mm <sup>2</sup> (22AWG) |
| Environmental Protection | IP67 (Mated)                 |                             |                             |
| Mechanical Life          | 500 mating cycles            |                             |                             |
| Operating Temperature    | - 40°C - 80°C                |                             |                             |
| Voltage Rating           | 50V                          |                             |                             |
| Rated Current(40°C)      | 5A                           |                             |                             |

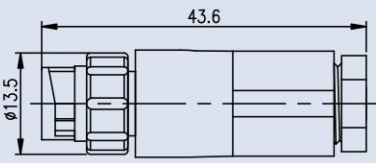
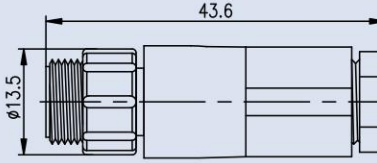
# MINI SERIES















## MINI Series Specifications

### Mini Series , Female connector & Male pin

|             |   |   |
|-------------|---|---|
| Description | Field Installable, 180°<br>Lock Bayonet Type, Solder                              | Field Installable, 180°<br>Screw Type, Solder                                       |
| Figure      |  |  |

|         |   |  |
|---------|---|--|
| Drawing |  |  |
|---------|---|--|

| Part-No. | Contacts | Cable Range(mm) | Part-Number   | Contacts | Cable Range(mm) | Part-Number   |
|----------|----------|-----------------|---|----------|-----------------|---|
|          | 2        | 3.5 - 6.8       | 21002321-01  | 2        | 3.5 - 6.8       | 21002311-01  |
|          | 3        | 3.5 - 6.8       | 21003321-01  | 3        | 3.5 - 6.8       | 21003311-01  |
|          | 4(5A)    | 3.5 - 6.8       | 21004321-01   | 4(5A)    | 3.5 - 6.8       | 21004311-01   |
|          | 4(2A)    | 3.5 - 6.8       | 21004321-02   | 4(2A)    | 3.5 - 6.8       | 21004311-02   |
|          | 5        | 3.5 - 6.8       | 21005321-01  | 5        | 3.5 - 6.8       | 21005311-01  |
|          | 6        | 3.5 - 6.8       | 21006321-01  | 6        | 3.5 - 6.8       | 21006311-01  |
|          | 2+4      | 3.5 - 6.8       | 21204321-01   | 2+4      | 3.5 - 6.8       | 21204311-01   |
|          | 7        | 3.5 - 6.8       | 21007321-01  | 7        | 3.5 - 6.8       | 21007311-01  |
|          | 8        | 3.5 - 6.8       | 21008321-01  | 8        | 3.5 - 6.8       | 21008311-01  |

### Specifications

|                          |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Cable Range              | 3.5mm - 6.8mm                |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67/IP68 (Mated)            |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 45°C - 105°C               |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

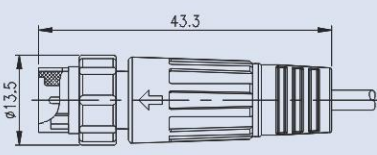
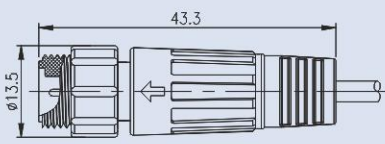
# MINI SERIES







## MINI Series Specifications

### Mini Series , Female connector & Male pin

|             |   |  |
|-------------|---|--|
| Description | Molded, 180°<br>Lock Bayonet Type, Solder   | Molded, 180°<br>Screw Type, Solder   |
| Figure      |  |  |

|         |   |  |
|---------|---|--|
| Drawing |  |  |
|---------|---|--|

| Part-No. | Female Connector |                 |   | Male Connector |                 |   |
|----------|------------------|-----------------|---|----------------|-----------------|---|
|          | Contacts         | Cable Range(mm) | Part-Number   | Contacts       | Cable Range(mm) | Part-Number   |
|          | 2                | Max. 7.2        | 21002323-01-XXX  | 2              | Max. 7.2        | 21002313-01-XXX  |
|          | 3                | Max. 7.2        | 21003323-01-XXX  | 3              | Max. 7.2        | 21003313-01-XXX  |
|          | 4(5A)            | Max. 7.2        | 21004323-01-XXX   | 4(5A)          | Max. 7.2        | 21004313-01-XXX   |
|          | 4(2A)            | Max. 7.2        | 21004323-02-XXX   | 4(2A)          | Max. 7.2        | 21004313-02-XXX   |
|          | 5                | Max. 7.2        | 21005323-01-XXX   | 5              | Max. 7.2        | 21005313-01-XXX   |
|          | 6                | Max. 7.2        | 21006323-01-XXX   | 6              | Max. 7.2        | 21006313-01-XXX   |
|          | 2+4              | Max. 7.2        | 21204323-01-XXX   | 2+4            | Max. 7.2        | 21204313-01-XXX   |
|          | 7                | Max. 7.2        | 21007323-01-XXX   | 7              | Max. 7.2        | 21007313-01-XXX   |
|          | 8                | Max. 7.2        | 21008323-01-XXX   | 8              | Max. 7.2        | 21008313-01-XXX   |

| Specifications           |                              |      |      |      |                             |     |      |     |     |
|--------------------------|------------------------------|------|------|------|-----------------------------|-----|------|-----|-----|
| Number of Contacts       | 2                            | 3    | 4    | 4    | 5                           | 6   | 2+4  | 7   | 8   |
| Wire Gauge               | 0.519mm <sup>2</sup> (20AWG) |      |      |      | 0.34mm <sup>2</sup> (22AWG) |     |      |     |     |
| Cable Range              | Max. 7.2mm                   |      |      |      |                             |     |      |     |     |
| Environmental Protection | IP67(Mated)                  |      |      |      |                             |     |      |     |     |
| Mechanical Life          | 500 mating cycles            |      |      |      |                             |     |      |     |     |
| Operating Temperature    | - 40°C - 80°C                |      |      |      |                             |     |      |     |     |
| Voltage Rating           | 110V                         | 110V | 110V | 110V | 50V                         | 50V | 50V  | 50V | 50V |
| Rated Current(40°C)      | 5A                           | 5A   | 5A   | 2A   | 2A                          | 2A  | 5+2A | 2A  | 2A  |

# Standard Series

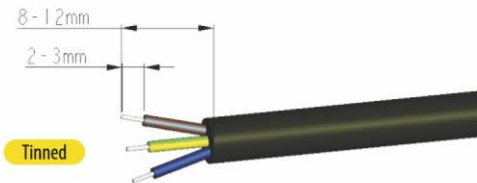
1. Standard Series, Assembly/Wiring Instructions.....P38
2. Standard Series, Panel Mount&Male Pin.....P39 - P41
3. Standard Series, Male Connector/ Female Pin.....P42 - P44
4. Standard Series, Panel Mount&Female Pin.....P45 - P47
5. Standard Series, Male Connector/ Male Pin.....P48 - P50
6. Standard Series, Female Connector/ Male Pin.....P51 - P52
7. Standard Series, Female Connector/ Female Pin....P53 - P54





1

**Strip and prepare Cable.**



2

**Thread Seals Nut, Seals Ring, Clamp Ring and Gasket onto the cable.**



3

**Solder wire**



4

**Assemble Gasket into Clamp ring: Gasket Direction (Flat Surface to Housing)**



5

**Assemble Clamp Ring to Housing**



6

**Put Seals Ring to the end of Clamp Ring.**



7

**Assemble Seals Nut and Clamp Ring.**



# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Male Pin

|             |  |   |  |
|-------------|--|---|--|
| Description | Panel Front Mount,<br>Screw Type, Solder | Panel Front Mount,<br>Lock Bayonet Type, Solder | Panel Front Mount,<br>Push Lock Type, Solder |
| Figure      |  |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Contacts | Part Number | Contacts | Part Number | Contacts | Part Number |
|-------------|----------|-------------|----------|-------------|----------|-------------|
|             | 2        | 22002515-01 | 2        | 22002525-01 | 2        | 22002535-01 |
|             | 3        | 22003515-01 | 3        | 22003525-01 | 3        | 22003535-01 |
|             | 4        | 22004515-01 | 4        | 22004525-01 | 4        | 22004535-01 |
|             | 5        | 22005515-01 | 5        | 22005525-01 | 5        | 22005535-01 |
|             | 6        | 22006515-01 | 6        | 22006525-01 | 6        | 22006535-01 |
|             | 2+4      | 22204515-01 | 2+4      | 22204525-01 | 2+4      | 22204535-01 |
|             | 3+4      | 22304515-01 | 3+4      | 22304525-01 | 3+4      | 22304535-01 |
|             | 8        | 22008515-01 | 8        | 22008525-01 | 8        | 22008535-01 |
|             | 10       | 22010515-01 | 10       | 22010525-01 | 10       | 22010535-01 |
|             | 12       | 22012515-01 | 12       | 22012525-01 | 12       | 22012535-01 |

### Specifications

|                          |                              |                              |                              |                              |                              |                                    |                                 |                              |                             |     |
|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------------|---------------------------------|------------------------------|-----------------------------|-----|
| Number of Contacts       | 2                            | 3                            | 4                            | 5                            | 6                            | 2+4                                | 3+4                             | 8                            | 10                          | 12  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG) | 0.823mm <sup>2</sup> (18AWG) | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.823mm <sup>2</sup> (18AWG)*2C/3C | 0.519mm <sup>2</sup> (20AWG)*4C | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |     |
| Panel Thickness          | Max. 4.0mm                   |                              |                              |                              | Max. 4.0mm                   |                                    |                                 | Max. 2.5mm                   |                             |     |
| Environmental Protection | IP68 (Mated)                 |                              |                              |                              | IP67 (Mated)                 |                                    |                                 | IP67 (Mated)                 |                             |     |
| Mechanical Life          | 500 mating cycles            |                              |                              |                              |                              |                                    |                                 |                              |                             |     |
| Operating Temperature    | - 45°C - 105°C               |                              |                              |                              |                              |                                    |                                 |                              |                             |     |
| Voltage Rating           | 300V                         | 300V                         | 125V                         | 60V                          | 60V                          | 60V                                | 60V                             | 60V                          | 30V                         | 30V |
| Rated Current (40°C)     | 10A                          | 10A                          | 10A                          | 5A                           | 5A                           | 10A+5A                             | 10A+2A                          | 5A                           | 2A                          | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Male Pin

| Description | Panel Front Mount,<br>Screw Type, PCB | Panel Front Mount,<br>Lock Bayonet Type, PCB | Panel Front Mount,<br>Push Lock Type, PCB |
|-------------|---------------------------------------|--|---|
| Figure      |                                       |  |   |

| Drawing |  |  |  |
|---------|--|--|--|
|---------|--|--|--|

| Part Number | Contacts | Part Number | Contacts    | Part Number | Contacts    | Part Number |
|-------------|----------|-------------|-------------|-------------|-------------|-------------|
|             |          | 2           | 22002515-02 | 2           | 22002525-02 | 2           |
|             | 3        | 22003515-02 | 3           | 22003525-02 | 3           | 22003535-02 |
|             | 4        | 22004515-02 | 4           | 22004525-02 | 4           | 22004535-02 |
|             | 5        | 22005515-02 | 5           | 22005525-02 | 5           | 22005535-02 |
|             | 6        | 22006515-02 | 6           | 22006525-02 | 6           | 22006535-02 |
|             | 2+4      | 22204515-02 | 2+4         | 22204525-02 | 2+4         | 22204535-02 |
|             | 3+4      | 22304515-02 | 3+4         | 22304525-02 | 3+4         | 22304535-02 |
|             | 8        | 22008515-02 | 8           | 22008525-02 | 8           | 22008535-02 |
|             | 10       | 22010515-02 | 10          | 22010525-02 | 10          | 22010535-02 |
|             | 12       | 22012515-02 | 12          | 22012525-02 | 12          | 22012535-02 |

### Specifications

| Number of Contacts       | 2  | 3                            | 4                            | 5   | 6   | 2+4   | 3+4    | 8                            | 10                          | 12  |
|--------------------------|--|------------------------------|------------------------------|-----|-----|---|--------|------------------------------|-----------------------------|-----|
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) |     |     | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |     |
| Panel Thickness          | Max. 4.0mm   |                              |                              |     |     | Max. 4.0mm  |        | Max. 2.5mm                   |                             |     |
| Environmental Protection | IP68 (Mated)                                       |                              |                              |     |     | IP67 (Mated)  |        | IP67 (Mated)                 |                             |     |
| Mechanical Life          | 500 mating cycles                                  |                              |                              |     |     |   |        |                              |                             |     |
| Operating Temperature    | - 45°C - 105°C                                     |                              |                              |     |     |   |        |                              |                             |     |
| Voltage Rating           | 300V   | 300V                         | 125V                         | 60V | 60V | 60V   | 60V    | 60V                          | 30V                         | 30V |
| Rated Current (40°C)     | 10A  | 10A                          | 10A                          | 5A  | 5A  | 10A+5A  | 10A+2A | 5A                           | 2A                          | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Panel Rear Mount,<br>Screw Type, Solder | Panel Rear Mount,<br>Lock Bayonet Type, Solder | Panel Rear Mount,<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Contacts | Part Number | Contacts | Part Number | Contacts | Part Number |
|-------------|----------|-------------|----------|-------------|----------|-------------|
|             | 2        | 22002515-03 | 2        | 22002525-03 | 2        | 22002535-03 |
|             | 3        | 22003515-03 | 3        | 22003525-03 | 3        | 22003535-03 |
|             | 4        | 22004515-03 | 4        | 22004525-03 | 4        | 22004535-03 |
|             | 5        | 22005515-03 | 5        | 22005525-03 | 5        | 22005535-03 |
|             | 6        | 22006515-03 | 6        | 22006525-03 | 6        | 22006535-03 |
|             | 2+4      | 22204515-03 | 2+4      | 22204525-03 | 2+4      | 22204535-03 |
|             | 3+4      | 22304515-03 | 3+4      | 22304525-03 | 3+4      | 22304535-03 |
|             | 8        | 22008515-03 | 8        | 22008525-03 | 8        | 22008535-03 |
|             | 10       | 22010515-03 | 10       | 22010525-03 | 10       | 22010535-03 |
|             | 12       | 22012515-03 | 12       | 22012525-03 | 12       | 22012535-03 |

### Specifications

|                          |  |                              |                              |     |              |   |        |                              |                             |     |
|--------------------------|--|------------------------------|------------------------------|-----|--------------|---|--------|------------------------------|-----------------------------|-----|
| Number of Contacts       | 2  | 3                            | 4                            | 5   | 6            | 2+4   | 3+4    | 8                            | 10                          | 12  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) |     |              | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |     |
| Panel Thickness          | Max. 5.0mm   |                              |                              |     | Max. 5.0mm   |   |        | Max. 5.5mm                   |                             |     |
| Environmental Protection | IP68 (Mated)                                       |                              |                              |     | IP67 (Mated) |   |        | IP67 (Mated)                 |                             |     |
| Mechanical Life          | 500 mating cycles                                  |                              |                              |     |              |   |        |                              |                             |     |
| Operating Temperature    | - 45°C - 105°C                                     |                              |                              |     |              |   |        |                              |                             |     |
| Voltage Rating           | 300V   | 300V                         | 125V                         | 60V | 60V          | 60V   | 60V    | 60V                          | 30V                         | 30V |
| Rated Current (40°C)     | 10A  | 10A                          | 10A                          | 5A  | 5A           | 10A+5A  | 10A+2A | 5A                           | 2A                          | 2A  |

Company Profile  
Micro Series  
500 Series  
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RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Male Connector & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Field Installable, 180°<br>Screw Type, Solder | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |             | Lock Bayonet Type |                 |             | Push Lock Type |                 |             |
|-------------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|             | Contacts   | Cable Range(mm) | Part Number | Contacts          | Cable Range(mm) | Part Number | Contacts       | Cable Range(mm) | Part Number |
|             | 2          | 5.0 - 6.8       | 22002211-01 | 2                 | 5.0 - 6.8       | 22002221-01 | 2              | 5.0 - 6.8       | 22002231-01 |
|             | 3          | 5.0 - 6.8       | 22003211-01 | 3                 | 5.0 - 6.8       | 22003221-01 | 3              | 5.0 - 6.8       | 22003231-01 |
|             | 4          | 5.0 - 6.8       | 22004211-01 | 4                 | 5.0 - 6.8       | 22004221-01 | 4              | 5.0 - 6.8       | 22004231-01 |
|             | 5          | 5.0 - 6.8       | 22005211-01 | 5                 | 5.0 - 6.8       | 22005221-01 | 5              | 5.0 - 6.8       | 22005231-01 |
|             | 6          | 5.0 - 6.8       | 22006211-01 | 6                 | 5.0 - 6.8       | 22006221-01 | 6              | 5.0 - 6.8       | 22006231-01 |
|             | 2+4        | 5.0 - 6.8       | 22204211-01 | 2+4               | 5.0 - 6.8       | 22204221-01 | 2+4            | 5.0 - 6.8       | 22204231-01 |
|             | 3+4        | 5.0 - 6.8       | 22304211-01 | 3+4               | 5.0 - 6.8       | 22304221-01 | 3+4            | 5.0 - 6.8       | 22304231-01 |
|             | 8          | 5.0 - 6.8       | 22008211-01 | 8                 | 5.0 - 6.8       | 22008221-01 | 8              | 5.0 - 6.8       | 22008231-01 |
|             | 10         | 5.0 - 6.8       | 22010211-01 | 10                | 5.0 - 6.8       | 22010221-01 | 10             | 5.0 - 6.8       | 22010231-01 |
|             | 12         | 5.0 - 6.8       | 22012211-01 | 12                | 5.0 - 6.8       | 22012221-01 | 12             | 5.0 - 6.8       | 22012231-01 |
|             | 5          | 5.0 - 6.8       | 22005211-21 |                   |                 |             | 5              | 5.0 - 6.8       | 22005231-21 |

| Specifications           |  |                              |                              |     |   |        |                              |                             |              |                              |      |  |
|--------------------------|--|------------------------------|------------------------------|-----|---|--------|------------------------------|-----------------------------|--------------|------------------------------|------|--|
| Number of Contacts       | 2  | 3                            | 4                            | 5   | 6   | 2+4    | 3+4                          | 8                           | 10           | 12                           | 5    |  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |              | 0.823mm <sup>2</sup> (18AWG) |      |  |
| Cable Range              | 5.0 - 6.8mm  |                              |                              |     |   |        |                              |                             |              |                              |      |  |
| Environmental Protection | IP68 (Mated)                                       |                              |                              |     | IP67 (Mated)  |        |                              |                             | IP67 (Mated) |                              |      |  |
| Mechanical Life          | 500 mating cycles                                  |                              |                              |     |   |        |                              |                             |              |                              |      |  |
| Operating Temperature    | - 45°C - 105°C                                     |                              |                              |     |   |        |                              |                             |              |                              |      |  |
| Voltage Rating           | 300V   | 300V                         | 125V                         | 60V | 60V   | 60V    | 60V                          | 60V                         | 30V          | 30V                          | 125V |  |
| Rated Current (40°C)     | 10A  | 10A                          | 10A                          | 5A  | 5A  | 10A+5A | 10A+2A                       | 5A                          | 2A           | 2A                           | 10A  |  |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Male Connector & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Molded with Cable, 180°<br>Screw Type, Solder | Molded with Cable, 180°<br>Lock Bayonet Type, Solder | Molded with Cable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|-------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|             | Contacts   | Cable Range(mm) | Part Number     | Contacts          | Cable Range(mm) | Part Number     | Contacts       | Cable Range(mm) | Part Number     |
|             | 2          | Max. 9.0        | 22002213-01-XXX | 2                 | Max. 9.0        | 22002223-01-XXX | 2              | Max. 9.0        | 22002233-01-XXX |
|             | 3          | Max. 9.0        | 22003213-01-XXX | 3                 | Max. 9.0        | 22003223-01-XXX | 3              | Max. 9.0        | 22003233-01-XXX |
|             | 4          | Max. 9.0        | 22004213-01-XXX | 4                 | Max. 9.0        | 22004223-01-XXX | 4              | Max. 9.0        | 22004233-01-XXX |
|             | 5          | Max. 9.0        | 22005213-01-XXX | 5                 | Max. 9.0        | 22005223-01-XXX | 5              | Max. 9.0        | 22005233-01-XXX |
|             | 6          | Max. 9.0        | 22006213-01-XXX | 6                 | Max. 9.0        | 22006223-01-XXX | 6              | Max. 9.0        | 22006233-01-XXX |
|             | 2+4        | Max. 9.0        | 22204213-01-XXX | 2+4               | Max. 9.0        | 22204223-01-XXX | 2+4            | Max. 9.0        | 22204233-01-XXX |
|             | 3+4        | Max. 9.0        | 22304213-01-XXX | 3+4               | Max. 9.0        | 22304223-01-XXX | 3+4            | Max. 9.0        | 22304233-01-XXX |
|             | 8          | Max. 9.0        | 22008213-01-XXX | 8                 | Max. 9.0        | 22008223-01-XXX | 8              | Max. 9.0        | 22008233-01-XXX |
|             | 10         | Max. 9.0        | 22010213-01-XXX | 10                | Max. 9.0        | 22010223-01-XXX | 10             | Max. 9.0        | 22010233-01-XXX |
|             | 12         | Max. 9.0        | 22012213-01-XXX | 12                | Max. 9.0        | 22012223-01-XXX | 12             | Max. 9.0        | 22012233-01-XXX |
|             | 5          | Max. 9.0        | 22005213-21-XXX |                   |                 |                 | 5              | Max. 9.0        | 22005233-01-XXX |

| Specifications           |  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
|--------------------------|--|------|------------------------------|------------------------------|--------------|---|--------|------------------------------|-----------------------------|-----|------------------------------|--|
| Number of Contacts       | 2  | 3    | 4                            | 5                            | 6            | 2+4   | 3+4    | 8                            | 10                          | 12  | 5                            |  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) |              | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |     | 0.823mm <sup>2</sup> (18AWG) |  |
| Cable Range              | Max. 9.0 mm  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Environmental Protection | IP67 (Mated)                                       |      |                              |                              | IP67 (Mated) |   |        |                              | IP67 (Mated)                |     |                              |  |
| Mechanical Life          | 500 mating cycles                                  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Operating Temperature    | - 40 °C - 80 °C                                    |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Voltage Rating           | 300V   | 300V | 125V                         | 60V                          | 60V          | 60V   | 60V    | 60V                          | 30V                         | 30V | 125V                         |  |
| Rated Current (40°C)     | 10A  | 10A  | 10A                          | 5A                           | 5A           | 10A+5A  | 10A+2A | 5A                           | 2A                          | 2A  | 10A                          |  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

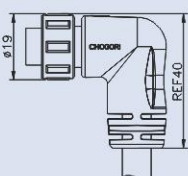
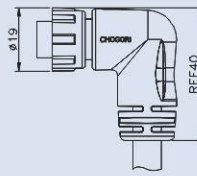
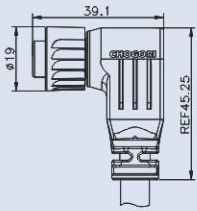
# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Male Connector & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Molded with Cable, 90°<br>Screw Type, Solder                                      | Molded with Cable, 90°<br>Lock Bayonet Type, Solder                                | Molded with Cable, 90°<br>Push Lock Type, Solder                                    |
| Figure      |  |  |  |

|         |   |   |   |
|---------|---|---|---|
| Drawing |  |  |  |
|---------|---|---|---|

| Part Number | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|-------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|             | Contacts   | Cable Range(mm) | Part Number     | Contacts          | Cable Range(mm) | Part Number     | Contacts       | Cable Range(mm) | Part Number     |
|             | 2          | Max. 9.0        | 22002214-01-XXX | 2                 | Max. 9.0        | 22002224-01-XXX | 2              | Max. 9.0        | 22002234-01-XXX |
|             | 3          | Max. 9.0        | 22003214-01-XXX | 3                 | Max. 9.0        | 22003224-01-XXX | 3              | Max. 9.0        | 22003234-01-XXX |
|             | 4          | Max. 9.0        | 22004214-01-XXX | 4                 | Max. 9.0        | 22004224-01-XXX | 4              | Max. 9.0        | 22004234-01-XXX |
|             | 5          | Max. 9.0        | 22005214-01-XXX | 5                 | Max. 9.0        | 22005224-01-XXX | 5              | Max. 9.0        | 22005234-01-XXX |
|             | 6          | Max. 9.0        | 22006214-01-XXX | 6                 | Max. 9.0        | 22006224-01-XXX | 6              | Max. 9.0        | 22006234-01-XXX |
|             | 2+4        | Max. 9.0        | 22204214-01-XXX | 2+4               | Max. 9.0        | 22204224-01-XXX | 2+4            | Max. 9.0        | 22204234-01-XXX |
|             | 3+4        | Max. 9.0        | 22304214-01-XXX | 3+4               | Max. 9.0        | 22304224-01-XXX | 3+4            | Max. 9.0        | 22304234-01-XXX |
|             | 8          | Max. 9.0        | 22008214-01-XXX | 8                 | Max. 9.0        | 22008224-01-XXX | 8              | Max. 9.0        | 22008234-01-XXX |
|             | 10         | Max. 9.0        | 22010214-01-XXX | 10                | Max. 9.0        | 22010224-01-XXX | 10             | Max. 9.0        | 22010234-01-XXX |
|             | 12         | Max. 9.0        | 22012214-01-XXX | 12                | Max. 9.0        | 22012224-01-XXX | 12             | Max. 9.0        | 22012234-01-XXX |
|             | 5          | Max. 9.0        | 22005214-21-XXX |                   |                 |                 | 5              | Max. 9.0        | 22005234-21-XXX |

| Specifications           |                              |                              |                              |                              |                              |                                    |                                 |                              |                             |                             |                              |  |
|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------------|---------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|--|
| Number of Contacts       | 2                            | 3                            | 4                            | 5                            | 6                            | 2+4                                | 3+4                             | 8                            | 10                          | 12                          | 5                            |  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG) | 0.823mm <sup>2</sup> (18AWG) | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.823mm <sup>2</sup> (18AWG)*2C/3C | 0.519mm <sup>2</sup> (20AWG)*4C | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.823mm <sup>2</sup> (18AWG) |  |
| Cable Range              | Max. 9.0 mm                  |                              |                              |                              |                              |                                    |                                 |                              |                             |                             |                              |  |
| Environmental Protection | IP67 (Mated)                 |                              |                              |                              | IP67 (Mated)                 |                                    |                                 |                              | IP67 (Mated)                |                             |                              |  |
| Mechanical Life          | 500 mating cycles            |                              |                              |                              |                              |                                    |                                 |                              |                             |                             |                              |  |
| Operating Temperature    | - 40°C - 80°C                |                              |                              |                              |                              |                                    |                                 |                              |                             |                             |                              |  |
| Voltage Rating           | 300V                         | 300V                         | 125V                         | 60V                          | 60V                          | 60V                                | 60V                             | 60V                          | 30V                         | 30V                         | 125V                         |  |
| Rated Current(40°C)      | 10A                          | 10A                          | 10A                          | 5A                           | 5A                           | 10A+5A                             | 10A+2A                          | 5A                           | 2A                          | 2A                          | 10A                          |  |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Female Pin

|             |  |   |  |
|-------------|--|---|--|
| Description | Panel Front Mount,<br>Screw Type, Solder | Panel Front Mount,<br>Lock Bayonet Type, Solder | Panel Front Mount,<br>Push Lock Type, Solder |
| Figure      |  |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Contacts |   | Part Number |             | Contacts |   | Part Number |             | Contacts |   | Part Number |             |
|-------------|----------|---|-------------|-------------|----------|---|-------------|-------------|----------|---|-------------|-------------|
|             |          | 2 | 3           | 22002615-01 |          | 2 | 3           | 22002625-01 |          | 2 | 3           | 22002635-01 |
|             |          |   | 22003615-01 |             |          |   | 22003625-01 |             |          |   | 22003635-01 |             |
|             |          |   | 22004615-01 |             |          |   | 22004625-01 |             |          |   | 22004635-01 |             |
|             |          |   | 22005615-01 |             |          |   | 22005625-01 |             |          |   | 22005635-01 |             |
|             |          |   | 22006615-01 |             |          |   | 22006625-01 |             |          |   | 22006635-01 |             |
|             | 2+4      |   | 22204615-01 |             | 2+4      |   | 22204625-01 |             | 2+4      |   | 22204635-01 |             |
|             | 2+6      |   | 22206615-01 |             | 2+6      |   | 22206625-01 |             | 2+6      |   | 22206635-01 |             |

### Specifications

| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Panel Thickness          | Max. 4.0mm   |      |                                 | Max. 4.0mm                      |     |   | Max. 2.5mm  |
| Environmental Protection | IP68 (Mated)                                       |      |                                 | IP67 (Mated)                    |     |   | IP67 (Mated)  |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 45°C - 105°C                                     |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Female Pin

|             |                                    |   |  |
|-------------|------------------------------------|---|--|
| Description | Panel Front Mount, Screw Type, PCB | Panel Front Mount, Lock Bayonet Type, PCB | Panel Front Mount, Push Lock Type, PCB |
| Figure      |                                    |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |             | Lock Bayonet Type |             | Push Lock Type |             |
|-------------|------------|-------------|-------------------|-------------|----------------|-------------|
|             | Contacts   | Part Number | Contacts          | Part Number | Contacts       | Part Number |
|             | 2          | 22002615-02 | 2                 | 22002625-02 | 2              | 22002635-02 |
|             | 3          | 22003615-02 | 3                 | 22003625-02 | 3              | 22003635-02 |
|             | 4          | 22004615-02 | 4                 | 22004625-02 | 4              | 22004635-02 |
|             | 5          | 22005615-02 | 5                 | 22005625-02 | 5              | 22005635-02 |
|             | 6          | 22006615-02 | 6                 | 22006625-02 | 6              | 22006635-02 |
|             | 2+4        | 22204615-02 | 2+4               | 22204625-02 | 2+4            | 22204635-02 |
|             | 2+6        | 22206615-02 | 2+6               | 22206625-02 | 2+6            | 22206635-02 |

### Specifications

| Number of Contacts       | 2                 |                              | 3    |                    | 4   |                              | 5            |                              | 6   |                                 | 2+4          |                                | 2+6    |                                 |
|--------------------------|-------------------|------------------------------|------|--------------------|-----|------------------------------|--------------|------------------------------|-----|---------------------------------|--------------|--------------------------------|--------|---------------------------------|
|                          | Wire Gauge        | 0.823mm <sup>2</sup> (18AWG) |      | 1.0mm <sup>2</sup> |     | 0.823mm <sup>2</sup> (18AWG) |              | 0.519mm <sup>2</sup> (20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C |              | 0.34mm <sup>2</sup> (22AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG)*2C |
| Panel Thickness          | Max. 4.0mm        |                              |      |                    |     |                              | Max. 4.0mm   |                              |     |                                 | Max. 2.5mm   |                                |        |                                 |
| Environmental Protection | IP68 (Mated)      |                              |      |                    |     |                              | IP67 (Mated) |                              |     |                                 | IP67 (Mated) |                                |        |                                 |
| Mechanical Life          | 500 mating cycles |                              |      |                    |     |                              |              |                              |     |                                 |              |                                |        |                                 |
| Operating Temperature    | - 45°C - 105°C    |                              |      |                    |     |                              |              |                              |     |                                 |              |                                |        |                                 |
| Voltage Rating           | 300V              | 300V                         | 125V | 60V                | 60V | 60V                          | 60V          | 60V                          | 60V | 60V                             | 60V          | 60V                            | 60V    | 30V                             |
| Rated Current (40°C)     | 10A               | 10A                          | 10A  | 5A                 | 5A  | 5A                           | 5A           | 5A                           | 5A  | 5A                              | 5A           | 10A+2A                         | 10A+2A | 5A+2A                           |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Panel Mount & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Panel Rear Mount,<br>Screw Type, Solder | Panel Rear Mount,<br>Lock Bayonet Type, Solder | Panel Rear Mount,<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Contacts |     | Part Number |             | Contacts |     | Part Number |             | Contacts |     | Part Number |             |
|-------------|----------|-----|-------------|-------------|----------|-----|-------------|-------------|----------|-----|-------------|-------------|
|             |          | 2   | 3           | 22002615-03 |          | 2   | 3           | 22002625-03 |          | 2   | 3           | 22002635-03 |
|             | 4        | 5   | 22003615-03 |             | 4        | 5   | 22003625-03 |             | 4        | 5   | 22003635-03 |             |
|             | 6        | 2+4 | 22004615-03 |             | 6        | 2+4 | 22004625-03 |             | 6        | 2+4 | 22004635-03 |             |
|             | 2+6      |     | 22005615-03 |             | 2+6      |     | 22005625-03 |             | 2+6      |     | 22005635-03 |             |
|             |          |     | 22006615-03 |             |          |     | 22006625-03 |             |          |     | 22006635-03 |             |

### Specifications

| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Panel Thickness          | Max. 5.0mm   |      |                                 | Max. 5.0mm                      |     |   | Max. 2.5mm  |
| Environmental Protection | IP68 (Mated)                                       |      |                                 | IP67 (Mated)                    |     |   | IP67 (Mated)  |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 45°C - 105°C                                     |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap


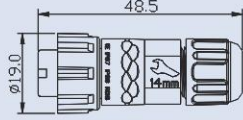
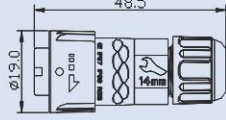
# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Male Connector & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Field Installable, 180°<br>Screw Type, Solder                                     | Field Installable, 180°<br>Lock Bayonet Type, Solder                               | Field Installable, 180°<br>Push Lock Type, Solder                                   |
| Figure      |  |  |  |

|         |   |  |   |
|---------|---|--|---|
| Drawing |  |  |  |
|---------|---|--|---|

| Part Number | Screw Type |                 |             | Lock Bayonet Type |                 |             | Push Lock Type |                 |             |
|-------------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|             | Contacts   | Cable Range(mm) | Part Number | Contacts          | Cable Range(mm) | Part Number | Contacts       | Cable Range(mm) | Part Number |
|             | 2          | 5.0 - 6.8       | 22002111-01 | 2                 | 5.0 - 6.8       | 22002121-01 | 2              | 5.0 - 6.8       | 22002131-01 |
|             | 3          | 5.0 - 6.8       | 22003111-01 | 3                 | 5.0 - 6.8       | 22003121-01 | 3              | 5.0 - 6.8       | 22003131-01 |
|             | 4          | 5.0 - 6.8       | 22004111-01 | 4                 | 5.0 - 6.8       | 22004121-01 | 4              | 5.0 - 6.8       | 22004131-01 |
|             | 5          | 5.0 - 6.8       | 22005111-01 | 5                 | 5.0 - 6.8       | 22005121-01 | 5              | 5.0 - 6.8       | 22005131-01 |
|             | 6          | 5.0 - 6.8       | 22006111-01 | 6                 | 5.0 - 6.8       | 22006121-01 | 6              | 5.0 - 6.8       | 22006131-01 |
|             | 2+4        | 5.0 - 6.8       | 22204111-01 | 2+4               | 5.0 - 6.8       | 22204121-01 | 2+4            | 5.0 - 6.8       | 22204131-01 |
|             | 2+6        | 5.0 - 6.8       | 22206111-01 | 2+6               | 5.0 - 6.8       | 22206121-01 | 2+6            | 5.0 - 6.8       | 22206131-01 |

### Specifications

|                          |  |      |                                 |                                 |     |   |   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Cable Range              | 5.0 - 6.8mm  |      |                                 |                                 |     |   |   |
| Environmental Protection | IP68 (Mated)                                       |      |                                 | IP67 (Mated)                    |     |   | IP67 (Mated)  |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 45°C - 105°C                                     |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Male Connector & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Molded with Cable, 180°<br>Screw Type, Solder | Molded with Cable, 180°<br>Lock Bayonet Type, Solder | Molded with Cable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|-------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|             | Contacts   | Cable Range(mm) | Part Number     | Contacts          | Cable Range(mm) | Part Number     | Contacts       | Cable Range(mm) | Part Number     |
|             | 2          | Max. 9.0        | 22002113-01-XXX | 2                 | Max. 9.0        | 22002123-01-XXX | 2              | Max. 9.0        | 22002133-01-XXX |
|             | 3          | Max. 9.0        | 22003113-01-XXX | 3                 | Max. 9.0        | 22003123-01-XXX | 3              | Max. 9.0        | 22003133-01-XXX |
|             | 4          | Max. 9.0        | 22004113-01-XXX | 4                 | Max. 9.0        | 22004123-01-XXX | 4              | Max. 9.0        | 22004133-01-XXX |
|             | 5          | Max. 9.0        | 22005113-01-XXX | 5                 | Max. 9.0        | 22005123-01-XXX | 5              | Max. 9.0        | 22005133-01-XXX |
|             | 6          | Max. 9.0        | 22006113-01-XXX | 6                 | Max. 9.0        | 22006123-01-XXX | 6              | Max. 9.0        | 22006133-01-XXX |
|             | 2+4        | Max. 9.0        | 22204113-01-XXX | 2+4               | Max. 9.0        | 22204123-01-XXX | 2+4            | Max. 9.0        | 22204133-01-XXX |
|             | 2+6        | Max. 9.0        | 22206113-01-XXX | 2+6               | Max. 9.0        | 22206123-01-XXX | 2+6            | Max. 9.0        | 22206133-01-XXX |

### Specifications

| Number of Contacts       | 2  | 3                            | 4                            | 5   | 6   | 2+4    | 2+6         |
|--------------------------|--|------------------------------|------------------------------|---|---|--------|-------------|
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |        |             |
| Cable Range              | Max. 9.0 mm  |                              |                              |   |   |        |             |
| Environmental Protection | IP67(Mated)  |                              |                              | IP67(Mated)   |   |        | IP67(Mated) |
| Mechanical Life          | 500 mating cycles                                  |                              |                              |   |   |        |             |
| Operating Temperature    | - 40°C - 80°C                                      |                              |                              |   |   |        |             |
| Voltage Rating           | 300V   | 300V                         | 125V                         | 60V   | 60V   | 60V    | 30V         |
| Rated Current (40°C)     | 10A  | 10A                          | 10A                          | 5A  | 5A  | 10A+2A | 5A+2A       |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# STANDARD SERIES



## Standard Series Specifications

### Standard series, Male connector & Male Pin

|             |  |   |  |
|-------------|--|---|--|
| Description | Molded with Cable, 90°<br>Screw Type, Solder | Molded with Cable, 90°<br>Lock Bayonet Type, Solder | Molded with Cable, 90°<br>Push Lock Type, Solder |
| Figure      |  |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Contacts | Cable Range(mm) | Part Number | Contacts        | Cable Range(mm) | Part Number | Contacts        | Cable Range(mm) | Part Number |
|-------------|----------|-----------------|-------------|-----------------|-----------------|-------------|-----------------|-----------------|-------------|
|             |          | 2               | Max. 9.0    | 22002114-01-XXX | 2               | Max. 9.0    | 22002124-01-XXX | 2               | Max. 9.0    |
|             | 3        | 2200311401-XXX  |             | 3               | 22003124-01-XXX |             | 3               | 22003134-01-XXX |             |
|             | 4        | 22004114-01-XXX |             | 4               | 22004124-01-XXX |             | 4               | 22004134-01-XXX |             |
|             | 5        | 22005114-01-XXX |             | 5               | 22005124-01-XXX |             | 5               | 22005134-01-XXX |             |
|             | 6        | 22006114-01-XXX |             | 6               | 22006124-01-XXX |             | 6               | 22006134-01-XXX |             |
|             | 2+4      | 22204114-01-XXX |             | 2+4             | 22204124-01-XXX |             | 2+4             | 22204134-01-XXX |             |
|             | 2+6      | 22206114-01-XXX |             | 2+6             | 22206124-01-XXX |             | 2+6             | 22206134-01-XXX |             |

### Specifications

|                          |  |      |                                 |                                 |     |   |   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Cable Range              | Max. 9.0 mm  |      |                                 |                                 |     |   |   |
| Environmental Protection | IP67(Mated)  |      |                                 | IP67(Mated)                     |     |   | IP67(Mated)   |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 40°C - 80°C                                      |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Female Connector & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Field Installable, 180°<br>Screw Type, Solder | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |             | Lock Bayonet Type |                 |             | Push Lock Type |                 |             |
|-------------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|             | Contacts   | Cable Range(mm) | Part Number | Contacts          | Cable Range(mm) | Part Number | Contacts       | Cable Range(mm) | Part Number |
|             | 2          | 5.0 - 6.8       | 22002311-01 | 2                 | 5.0 - 6.8       | 22002321-01 | 2              | 5.0 - 6.8       | 22002331-01 |
|             | 3          | 5.0 - 6.8       | 22003311-01 | 3                 | 5.0 - 6.8       | 22003321-01 | 3              | 5.0 - 6.8       | 22003331-01 |
|             | 4          | 5.0 - 6.8       | 22004311-01 | 4                 | 5.0 - 6.8       | 22004321-01 | 4              | 5.0 - 6.8       | 22004331-01 |
|             | 5          | 5.0 - 6.8       | 22005311-01 | 5                 | 5.0 - 6.8       | 22005321-01 | 5              | 5.0 - 6.8       | 22005331-01 |
|             | 6          | 5.0 - 6.8       | 22006311-01 | 6                 | 5.0 - 6.8       | 22006321-01 | 6              | 5.0 - 6.8       | 22006331-01 |
|             | 2+4        | 5.0 - 6.8       | 22204311-01 | 2+4               | 5.0 - 6.8       | 22204321-01 | 2+4            | 5.0 - 6.8       | 22204331-01 |
|             | 3+4        | 5.0 - 6.8       | 22304311-01 | 3+4               | 5.0 - 6.8       | 22304321-01 | 3+4            | 5.0 - 6.8       | 22304331-01 |
|             | 8          | 5.0 - 6.8       | 22008311-01 | 8                 | 5.0 - 6.8       | 22008321-01 | 8              | 5.0 - 6.8       | 22008331-01 |
|             | 10         | 5.0 - 6.8       | 22010311-01 | 10                | 5.0 - 6.8       | 22010321-01 | 10             | 5.0 - 6.8       | 22010331-01 |
|             | 12         | 5.0 - 6.8       | 22012311-01 | 12                | 5.0 - 6.8       | 22012321-01 | 12             | 5.0 - 6.8       | 22012331-01 |
|             | 5          | 5.0 - 6.8       | 22005311-21 |                   |                 |             | 5              | 5.0 - 6.8       | 22005331-21 |

### Specifications

|                          |  |                              |                              |   |     |                              |        |                             |                              |     |      |  |
|--------------------------|--|------------------------------|------------------------------|---|-----|------------------------------|--------|-----------------------------|------------------------------|-----|------|--|
| Number of Contacts       | 2  | 3                            | 4                            | 5   | 6   | 2+4                          | 3+4    | 8                           | 10                           | 12  | 5    |  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |     | 0.519mm <sup>2</sup> (20AWG) |        | 0.34mm <sup>2</sup> (22AWG) | 0.823mm <sup>2</sup> (18AWG) |     |      |  |
| Cable Range              | 5.0 - 6.8mm  |                              |                              |   |     |                              |        |                             |                              |     |      |  |
| Environmental Protection | IP68 (Mated)                                       |                              |                              |   |     | IP67 (Mated)                 |        |                             | IP67 (Mated)                 |     |      |  |
| Mechanical Life          | 500 mating cycles                                  |                              |                              |   |     |                              |        |                             |                              |     |      |  |
| Operating Temperature    | - 45°C - 105°C                                     |                              |                              |   |     |                              |        |                             |                              |     |      |  |
| Voltage Rating           | 300V   | 300V                         | 125V                         | 60V   | 60V | 60V                          | 60V    | 60V                         | 30V                          | 30V | 125V |  |
| Rated Current (40°C)     | 10A  | 10A                          | 10A                          | 5A  | 5A  | 10A+5A                       | 10A+2A | 5A                          | 2A                           | 2A  | 10A  |  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Female Connector & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Molded with Cable, 180°<br>Screw Type, Solder | Molded with Cable, 180°<br>Lock Bayonet Type, Solder | Molded with Cable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|-------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|             | Contacts   | Cable Range(mm) | Part Number     | Contacts          | Cable Range(mm) | Part Number     | Contacts       | Cable Range(mm) | Part Number     |
|             | 2          | Max. 9.0        | 22002313-01-XXX | 2                 | Max. 9.0        | 22002323-01-XXX | 2              | Max. 9.0        | 22002333-01-XXX |
|             | 3          | Max. 9.0        | 22003313-01-XXX | 3                 | Max. 9.0        | 22003323-01-XXX | 3              | Max. 9.0        | 22003333-01-XXX |
|             | 4          | Max. 9.0        | 22004313-01-XXX | 4                 | Max. 9.0        | 22004323-01-XXX | 4              | Max. 9.0        | 22004333-01-XXX |
|             | 5          | Max. 9.0        | 22005313-01-XXX | 5                 | Max. 9.0        | 22005323-01-XXX | 5              | Max. 9.0        | 22005333-01-XXX |
|             | 6          | Max. 9.0        | 22006313-01-XXX | 6                 | Max. 9.0        | 22006323-01-XXX | 6              | Max. 9.0        | 22006333-01-XXX |
|             | 2+4        | Max. 9.0        | 22204313-01-XXX | 2+4               | Max. 9.0        | 22204323-01-XXX | 2+4            | Max. 9.0        | 22204333-01-XXX |
|             | 3+4        | Max. 9.0        | 22304313-01-XXX | 3+4               | Max. 9.0        | 22304323-01-XXX | 3+4            | Max. 9.0        | 22304333-01-XXX |
|             | 8          | Max. 9.0        | 22008313-01-XXX | 8                 | Max. 9.0        | 22008323-01-XXX | 8              | Max. 9.0        | 22008333-01-XXX |
|             | 10         | Max. 9.0        | 22010313-01-XXX | 10                | Max. 9.0        | 22010323-01-XXX | 10             | Max. 9.0        | 22010333-01-XXX |
|             | 12         | Max. 9.0        | 22012313-01-XXX | 12                | Max. 9.0        | 22012323-01-XXX | 12             | Max. 9.0        | 22012333-01-XXX |
|             | 5          | Max. 9.0        | 22005313-21-XXX |                   |                 |                 | 5              | Max. 9.0        | 22005333-21-XXX |

| Specifications           |  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
|--------------------------|--|------|------------------------------|------------------------------|--------------|---|--------|------------------------------|-----------------------------|-----|------------------------------|--|
| Number of Contacts       | 2  | 3    | 4                            | 5                            | 6            | 2+4   | 3+4    | 8                            | 10                          | 12  | 5                            |  |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup> (18AWG) | 0.519mm <sup>2</sup> (20AWG) |              | 0.823mm <sup>2</sup> (18AWG)*2C/3C<br>0.519mm <sup>2</sup> (20AWG)*4C |        | 0.519mm <sup>2</sup> (20AWG) | 0.34mm <sup>2</sup> (22AWG) |     | 0.823mm <sup>2</sup> (18AWG) |  |
| Cable Range              | Max. 9.0 mm  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Environmental Protection | IP67 (Mated)                                       |      |                              |                              | IP67 (Mated) |   |        |                              | IP67 (Mated)                |     |                              |  |
| Mechanical Life          | 500 mating cycles                                  |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Operating Temperature    | - 40°C - 80°C                                      |      |                              |                              |              |   |        |                              |                             |     |                              |  |
| Voltage Rating           | 300V   | 300V | 125V                         | 60V                          | 60V          | 60V   | 60V    | 60V                          | 30V                         | 30V | 125V                         |  |
| Rated Current (40°C)     | 10A  | 10A  | 10A                          | 5A                           | 5A           | 10A+5A  | 10A+2A | 5A                           | 2A                          | 2A  | 10A                          |  |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Female Connector & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Field Installable, 180°<br>Screw Type, Solder | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |             | Lock Bayonet Type |                 |             | Push Lock Type |                 |             |
|-------------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|             | Contacts   | Cable Range(mm) | Part Number | Contacts          | Cable Range(mm) | Part Number | Contacts       | Cable Range(mm) | Part Number |
|             | 2          | 5.0 - 6.8       | 22002411-01 | 2                 | 5.0 - 6.8       | 22002421-01 | 2              | 5.0 - 6.8       | 22002431-01 |
|             | 3          | 5.0 - 6.8       | 22003411-01 | 3                 | 5.0 - 6.8       | 22003421-01 | 3              | 5.0 - 6.8       | 22003431-01 |
|             | 4          | 5.0 - 6.8       | 22004411-01 | 4                 | 5.0 - 6.8       | 22004421-01 | 4              | 5.0 - 6.8       | 22004431-01 |
|             | 5          | 5.0 - 6.8       | 22005411-01 | 5                 | 5.0 - 6.8       | 22005421-01 | 5              | 5.0 - 6.8       | 22005431-01 |
|             | 6          | 5.0 - 6.8       | 22006411-01 | 6                 | 5.0 - 6.8       | 22006421-01 | 6              | 5.0 - 6.8       | 22006431-01 |
|             | 2+4        | 5.0 - 6.8       | 22204411-01 | 2+4               | 5.0 - 6.8       | 22204421-01 | 2+4            | 5.0 - 6.8       | 22204431-01 |
|             | 2+6        | 5.0 - 6.8       | 22206411-01 | 2+6               | 5.0 - 6.8       | 22206421-01 | 2+6            | 5.0 - 6.8       | 22206431-01 |

### Specifications

|                          |  |      |                                 |                                 |     |   |   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Cable Range              | 5.0 - 6.8mm  |      |                                 |                                 |     |   |   |
| Environmental Protection | IP68 (Mated)                                       |      |                                 | IP67 (Mated)                    |     |   | IP67 (Mated)  |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 45°C - 105°C                                     |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

# STANDARD SERIES



## Standard Series Specifications

### Standard Series, Female Connector & Female Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Molded with Cable, 180°<br>Screw Type, Solder | Molded with Cable, 180°<br>Lock Bayonet Type, Solder | Molded with Cable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part Number | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|-------------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|             | Contacts   | Cable Range(mm) | Part Number     | Contacts          | Cable Range(mm) | Part Number     | Contacts       | Cable Range(mm) | Part Number     |
|             | 2          | Max. 9.0        | 22002413-01-XXX | 2                 | Max. 9.0        | 22002423-01-XXX | 2              | Max. 9.0        | 22002433-01-XXX |
|             | 3          | Max. 9.0        | 22003413-01-XXX | 3                 | Max. 9.0        | 22003423-01-XXX | 3              | Max. 9.0        | 22003433-01-XXX |
|             | 4          | Max. 9.0        | 22004413-01-XXX | 4                 | Max. 9.0        | 22004423-01-XXX | 4              | Max. 9.0        | 22004433-01-XXX |
|             | 5          | Max. 9.0        | 22005413-01-XXX | 5                 | Max. 9.0        | 22005423-01-XXX | 5              | Max. 9.0        | 22005433-01-XXX |
|             | 6          | Max. 9.0        | 22006413-01-XXX | 6                 | Max. 9.0        | 22006423-01-XXX | 6              | Max. 9.0        | 22006433-01-XXX |
|             | 2+4        | Max. 9.0        | 22204413-01-XXX | 2+4               | Max. 9.0        | 22204423-01-XXX | 2+4            | Max. 9.0        | 22204433-01-XXX |
|             | 2+6        | Max. 9.0        | 22206413-01-XXX | 2+6               | Max. 9.0        | 22206423-01-XXX | 2+6            | Max. 9.0        | 22206433-01-XXX |

### Specifications

|                          |  |      |                                 |                                 |     |   |   |
|--------------------------|--|------|---------------------------------|---------------------------------|-----|---|---|
| Number of Contacts       | 2  | 3    | 4                               | 5                               | 6   | 2+4   | 2+6   |
| Wire Gauge               | 0.823mm <sup>2</sup> (18AWG)<br>1.0mm <sup>2</sup> |      | 0.823mm <sup>2</sup><br>(18AWG) | 0.519mm <sup>2</sup><br>(20AWG) |     | 0.823mm <sup>2</sup> (18AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*4C | 0.519mm <sup>2</sup> (20AWG)*2C<br>0.34mm <sup>2</sup> (22AWG)*6C |
| Cable Range              | Max. 9.0 mm  |      |                                 |                                 |     |   |   |
| Environmental Protection | IP67 (Mated)                                       |      |                                 | IP67 (Mated)                    |     |   | IP67 (Mated)  |
| Mechanical Life          | 500 mating cycles                                  |      |                                 |                                 |     |   |   |
| Operating Temperature    | - 40°C - 80°C                                      |      |                                 |                                 |     |   |   |
| Voltage Rating           | 300V   | 300V | 125V                            | 60V                             | 60V | 60V   | 30V   |
| Rated Current (40°C)     | 10A  | 10A  | 10A                             | 5A                              | 5A  | 10A+2A  | 5A+2A   |

# Middle Series

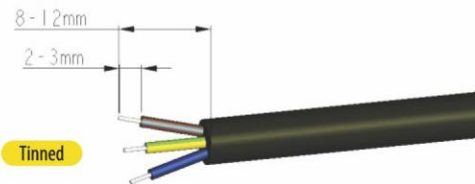
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1

**Strip and prepare Cable.**



2

**Thread Seals Nut, Seals Ring, Clamp Ring and Gasket onto the cable.**



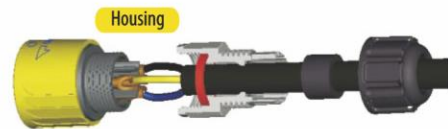
3

**Solder wire.**



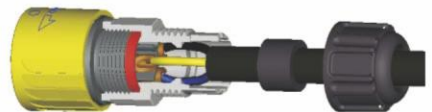
4

**Assemble Gasket into Clamp ring:  
Gasket Direction  
(Flat Surface to Housing)**



5

**Assemble Clamp Ring to Housing**



6

**Put Seals Ring to the end of Clamp Ring.**



7

**Assemble Seals Nut and Clamp Ring.**



# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Front Panel Mount & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Front Panel Mount<br>Screw Type, Solder | Front Panel Mount<br>Lock bayonet Type, Solder | Front Panel Mount<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part-No. | Contacts    |             | Part-Number |             | Contacts    |             | Part-Number |             | Contacts    |             | Part-Number |             |             |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |             | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 3+5         | 9           | 10          | 12          | 14          |
|          | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 3+5         | 9           | 10          | 12          | 14          | 18          |
|          | 23002515-01 | 23003515-01 | 23004515-01 | 23005515-01 | 23006515-01 | 23007515-01 | 23008515-01 | 23305515-01 | 23009515-01 | 23010515-01 | 23012515-01 | 23014515-01 | 23018515-01 |
|          | 23002525-01 | 23003525-01 | 23004525-01 | 23005525-01 | 23006525-01 | 23007525-01 | 23008525-01 | 23305525-01 | 23009525-01 | 23010525-01 | 23012525-01 | 23014525-01 | 23018525-01 |
|          | 23002535-01 | 23003535-01 | 23004535-01 | 23005535-01 | 23006535-01 | 23007535-01 | 23008535-01 | 23305535-01 | 23009535-01 | 23010535-01 | 23012535-01 | 23014535-01 | 23018535-01 |

### Specifications

| Number of Contacts       | 2                          | 3                          | 4                           | 5                           | 6  | 7                           | 8                           | 3+5     | 9            | 10  | 12  | 14  | 18  |
|--------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|--|-----------------------------|-----------------------------|---------|--------------|-----|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.34mm <sup>2</sup> (22AWG) | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |         |              |     |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |                            |                             |                             | Max. 4.0mm   |                             |                             |         | Max. 2.5mm   |     |     |     |     |
| Environmental Protection | IP68 (Mated)               |                            |                             |                             | IP67 (Mated)   |                             |                             |         | IP67 (Mated) |     |     |     |     |
| Mechanical Life          | 500 mating cycles          |                            |                             |                             |  |                             |                             |         |              |     |     |     |     |
| Operating Temperature    | - 45°C - 105°C             |                            |                             |                             |  |                             |                             |         |              |     |     |     |     |
| Voltage Rating           | 300V                       | 300V                       | 300V                        | 125V                        | 125V   | 60V                         | 60V                         | 125+30V | 60V          | 30V | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A                        | 15A                         | 10A                         | 10A  | 5A                          | 5A                          | 15A+2A  | 5A           | 5A  | 5A  | 5A  | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Stantart Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Front Panel Mount & Male Pin

| Description | Front Panel Mount<br>Screw Type, PCB | Front Panel Mount<br>Lock bayonet Type, PCB | Front Panel Mount<br>Push Lock Type, PCB |
|-------------|--------------------------------------|---|--|
| Figure      |                                      |   |  |

| Drawing |   |   |   |
|---------|---|---|---|
|         | Panel T: Max4.0<br>Panel Cut-Out: 19.2<br>Panel: 18.0<br>Pin: 4.1<br>Diameter: 20.0<br>Pin Length: 25.0 | Panel T: Max4.0<br>Panel Cut-Out: 19.4<br>Panel: 18.0<br>Pin: 4.1<br>Diameter: 20.5<br>Pin Length: 25.0 | Panel T: Max2.5<br>Panel Cut-Out: 19.2<br>Panel: 18.0<br>Pin: 4.1<br>Diameter: 20.0<br>Pin Length: 25.0 |

| Part-No. | Screw Type |             | Lock bayonet Type |             | Push Lock Type |             |
|----------|------------|-------------|-------------------|-------------|----------------|-------------|
|          | Contacts   | Part-Number | Contacts          | Part-Number | Contacts       | Part-Number |
|          | 2          | 23002515-02 | 2                 | 23002525-02 | 2              | 23002535-02 |
|          | 3          | 23003515-02 | 3                 | 23003525-02 | 3              | 23003535-02 |
|          | 4          | 23004515-02 | 4                 | 23004525-02 | 4              | 23004535-02 |
|          | 5          | 23005515-02 | 5                 | 23005525-02 | 5              | 23005535-02 |
|          | 6          | 23006515-02 | 6                 | 23006525-02 | 6              | 23006535-02 |
|          | 7          | 23007515-02 | 7                 | 23007525-02 | 7              | 23007535-02 |
|          | 8          | 23008515-02 | 8                 | 23008525-02 | 8              | 23008535-02 |
|          | 3+5        | 23305515-02 | 3+5               | 23305525-02 | 3+5            | 23305535-02 |
|          | 9          | 23009515-02 | 9                 | 23009525-02 | 9              | 23009535-02 |
|          | 10         | 23010515-02 | 10                | 23010525-02 | 10             | 23010535-02 |
|          | 12         | 23012515-02 | 12                | 23012525-02 | 12             | 23012535-02 |
|          | 14         | 23014515-02 | 14                | 23014525-02 | 14             | 23014535-02 |
|          | 18         | 23018515-02 | 18                | 23018525-02 | 18             | 23018535-02 |

| Specifications           |                            |      |                            |                             |                             |              |  |         |                             |                             |     |     |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|-----------------------------|--------------|--|---------|-----------------------------|-----------------------------|-----|-----|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6                           | 7            | 8  | 3+5     | 9                           | 10                          | 12  | 14  | 18  |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.34mm <sup>2</sup> (22AWG) |              | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) |         | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |      |                            |                             |                             | Max. 4.0mm   |  |         |                             | Max. 2.5mm                  |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |                             | IP67 (Mated) |  |         |                             | IP67 (Mated)                |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |                             |              |  |         |                             |                             |     |     |     |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |                             |              |  |         |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V                        | 60V          | 60V  | 125+30V | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A                         | 5A           | 5A   | 15A+2A  | 5A                          | 5A                          | 5A  | 5A  | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Rear Panel Mount & Male Pin

| Description | Rear Panel Mount<br>Screw Type, Solder | Rear Panel Mount<br>Lock bayonet Type, Solder | Rear Panel Mount<br>Push Lock Type, Solder |
|-------------|--|---|--|
| Figure      |  |   |  |
| Drawing     |  |   |  |

| Part-No. | Contacts |  | Part-Number |  | Contacts |  | Part-Number |  | Contacts |  | Part-Number |  |
|----------|----------|--|-------------|--|----------|--|-------------|--|----------|--|-------------|--|
|          |          |  |             |  |          |  |             |  |          |  |             |  |
|          | 2        |  | 23002515-03 |  | 2        |  | 23002525-03 |  | 2        |  | 23002535-03 |  |
|          | 3        |  | 23003515-03 |  | 3        |  | 23003525-03 |  | 3        |  | 23003535-03 |  |
|          | 4        |  | 23004515-03 |  | 4        |  | 23004525-03 |  | 4        |  | 23004535-03 |  |
|          | 5        |  | 23005515-03 |  | 5        |  | 23005525-03 |  | 5        |  | 23005535-03 |  |
|          | 6        |  | 23006515-03 |  | 6        |  | 23006525-03 |  | 6        |  | 23006535-03 |  |
|          | 7        |  | 23007515-03 |  | 7        |  | 23007525-03 |  | 7        |  | 23007535-03 |  |
|          | 8        |  | 23008515-03 |  | 8        |  | 23008525-03 |  | 8        |  | 23008535-03 |  |
|          | 3+5      |  | 23305515-03 |  | 3+5      |  | 23305525-03 |  | 3+5      |  | 23305535-03 |  |
|          | 9        |  | 23009515-03 |  | 9        |  | 23009525-03 |  | 9        |  | 23009535-03 |  |
|          | 10       |  | 23010515-03 |  | 10       |  | 23010525-03 |  | 10       |  | 23010535-03 |  |
|          | 12       |  | 23012515-03 |  | 12       |  | 23012525-03 |  | 12       |  | 23012535-03 |  |
|          | 14       |  | 23014515-03 |  | 14       |  | 23014525-03 |  | 14       |  | 23014535-03 |  |
|          | 18       |  | 23018515-03 |  | 18       |  | 23018525-03 |  | 18       |  | 23018535-03 |  |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |      |                            |                             |      | Max. 4.0mm                  |     |  |                             | Max. 3.0mm                  |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  |                             | IP67 (Mated)                |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Operating Temperature    | - 45 °C - 105 °C           |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 5A  | 5A  | 2A  |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Flange Panel Mount

#### Description

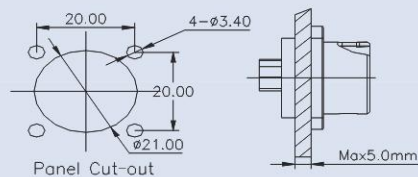
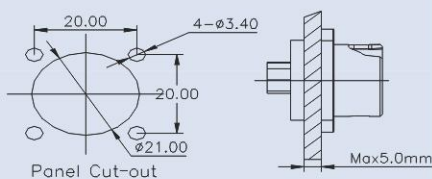
Flange Panel Mount With Male Pin  
Push Lock Type, Solder

Flange Panel Mount With Female Pin  
Push Lock Type, Solder

#### Figure



#### Drawing



#### Part-No.

| Contacts | Part-Number |
|----------|-------------|
| 2        | 23002536-01 |
| 3        | 23003536-01 |
| 4        | 23004536-01 |
| 8        | 23008536-01 |
| 9        | 23009536-01 |
| 10       | 23010536-01 |

| Contacts | Part-Number |
|----------|-------------|
| 2        | 23002636-01 |
| 3        | 23003636-01 |
| 4        | 23004636-01 |
| 8        | 23008636-01 |
| 9        | 23009636-01 |
| 10       | 23010636-01 |
| 2+3      | 23203636-01 |

### Specifications

| Number of Contacts       | 2                          | 3   | 4                          | 8                           | 9  | 10  | 2+3                                     |
|--------------------------|----------------------------|-----|----------------------------|-----------------------------|----|-----|---|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |     | 1.0mm <sup>2</sup> (17AWG) | 0.34mm <sup>2</sup> (22AWG) |    |     | 0.25mm <sup>2</sup> (24AWG) 14AWG+20AWG |
| Panel Thickness          | Max. 5.0mm                 |     |                            |                             |    |     |   |
| Environmental Protection | IP67 (Mated)               |     |                            |                             |    |     |   |
| Mechanical Life          | 500 mating cycles          |     |                            |                             |    |     |   |
| Operating Temperature    | - 45°C - 105°C             |     |                            |                             |    |     |   |
| Voltage Rating           | 250V                       |     |                            | 60V                         |    | 30V | 300V+30V                                |
| Rated Current(40°C)      | 20A                        | 20A | 15A                        | 5A                          | 5A | 5A  | 20A+5A                                  |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Female Pin

| Description | Field Installable, 180°<br>Screw Type, Solder | Field Installable, 180°<br>Lock bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |
|-------------|---|--|---|
| Figure      |   |  |   |
| Drawing     |   |  |   |

| Part-No. | Screw Type |                 |             | Lock bayonet Type |                 |             | Push Lock Type |                 |             |
|----------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|          | Contacts   | Cable Range(mm) | Part-Number | Contacts          | Cable Range(mm) | Part-Number | Contacts       | Cable Range(mm) | Part-Number |
|          | 2          | 6.0 - 7.3       | 23002211-01 | 2                 | 6.0 - 7.3       | 23002221-01 | 2              | 6.0 - 7.3       | 23002231-01 |
|          |            | 7.3 - 9.0       | 23002211-02 |                   | 7.3 - 9.0       | 23002221-02 |                | 7.3 - 9.0       | 23002231-02 |
|          | 3          | 6.0 - 7.3       | 23003211-01 | 3                 | 6.0 - 7.3       | 23003221-01 | 3              | 6.0 - 7.3       | 23003231-01 |
|          |            | 7.3 - 9.0       | 23003211-02 |                   | 7.3 - 9.0       | 23003221-02 |                | 7.3 - 9.0       | 23003231-02 |
|          | 4          | 6.0 - 7.3       | 23004211-01 | 4                 | 6.0 - 7.3       | 23004221-01 | 4              | 6.0 - 7.3       | 23004231-01 |
|          |            | 7.3 - 9.0       | 23004211-02 |                   | 7.3 - 9.0       | 23004221-02 |                | 7.3 - 9.0       | 23004231-02 |
|          | 5          | 6.0 - 7.3       | 23005211-01 | 5                 | 6.0 - 7.3       | 23005221-01 | 5              | 6.0 - 7.3       | 23005231-01 |
|          |            | 7.3 - 9.0       | 23005211-02 |                   | 7.3 - 9.0       | 23005221-02 |                | 7.3 - 9.0       | 23005231-02 |
|          | 6          | 6.0 - 7.3       | 23006211-01 | 6                 | 6.0 - 7.3       | 23006221-01 | 6              | 6.0 - 7.3       | 23006231-01 |
|          |            | 7.3 - 9.0       | 23006211-02 |                   | 7.3 - 9.0       | 23006221-02 |                | 7.3 - 9.0       | 23006231-02 |
|          | 7          | 6.0 - 7.3       | 23007211-01 | 7                 | 6.0 - 7.3       | 23007221-01 | 7              | 6.0 - 7.3       | 23007231-01 |
|          |            | 7.3 - 9.0       | 23007211-02 |                   | 7.3 - 9.0       | 23007221-02 |                | 7.3 - 9.0       | 23007231-02 |
|          | 8          | 6.0 - 7.3       | 23008211-01 | 8                 | 6.0 - 7.3       | 23008221-01 | 8              | 6.0 - 7.3       | 23008231-01 |
|          |            | 7.3 - 9.0       | 23008211-02 |                   | 7.3 - 9.0       | 23008221-02 |                | 7.3 - 9.0       | 23008231-02 |
|          | 3+5        | 6.0 - 7.3       | 23305211-01 | 3+5               | 6.0 - 7.3       | 23305221-01 | 3+5            | 6.0 - 7.3       | 23305231-01 |
|          |            | 7.3 - 9.0       | 23305211-02 |                   | 7.3 - 9.0       | 23305221-02 |                | 7.3 - 9.0       | 23305231-02 |
|          | 9          | 6.0 - 7.3       | 23009211-01 | 9                 | 6.0 - 7.3       | 23009221-01 | 9              | 6.0 - 7.3       | 23009231-01 |
|          |            | 7.3 - 9.0       | 23009211-02 |                   | 7.3 - 9.0       | 23009221-02 |                | 7.3 - 9.0       | 23009231-02 |
|          | 10         | 6.0 - 7.3       | 23010211-01 | 10                | 6.0 - 7.3       | 23010221-01 | 10             | 6.0 - 7.3       | 23010231-01 |
|          |            | 7.3 - 9.0       | 23010211-02 |                   | 7.3 - 9.0       | 23010221-02 |                | 7.3 - 9.0       | 23010231-02 |
|          | 12         | 6.0 - 7.3       | 23012211-01 | 12                | 6.0 - 7.3       | 23012221-01 | 12             | 6.0 - 7.3       | 23012231-01 |
|          |            | 7.3 - 9.0       | 23012211-02 |                   | 7.3 - 9.0       | 23012221-02 |                | 7.3 - 9.0       | 23012231-02 |
|          | 14         | 6.0 - 7.3       | 23014211-01 | 14                | 6.0 - 7.3       | 23014221-01 | 14             | 6.0 - 7.3       | 23014231-01 |
|          |            | 7.3 - 9.0       | 23014211-02 |                   | 7.3 - 9.0       | 23014221-02 |                | 7.3 - 9.0       | 23014231-02 |
|          | 18         | 6.0 - 7.3       | 23018211-01 | 18                | 6.0 - 7.3       | 23018221-01 | 18             | 6.0 - 7.3       | 23018231-01 |
|          |            | 7.3 - 9.0       | 23018211-02 |                   | 7.3 - 9.0       | 23018221-02 |                | 7.3 - 9.0       | 23018231-02 |

### Specifications

|                          |                            |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18  |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Cable Range              | 6.0 - 7.3mm, 7.3 - 9.0mm   |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  |                             | IP67 (Mated)                |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Operating Temperature    | - 45 °C - 105 °C           |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40 °C)     | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 5A  | 5A  | 2A  |

Company Profile  
Micro Series  
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Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Female Pin

|             |                                    |   |  |
|-------------|------------------------------------|---|--|
| Description | Molded, 180°<br>Screw Type, Solder | Molded, 180°<br>Lock bayonet Type, Solder | Molded, 180°<br>Push Lock Type, Solder |
| Figure      |                                    |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part-No. | Screw Type |                 |                 | Lock bayonet Type |                 |                 | Push Lock Type |                 |                 |
|----------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|          | Contacts   | Cable Range(mm) | Part-Number     | Contacts          | Cable Range(mm) | Part-Number     | Contacts       | Cable Range(mm) | Part-Number     |
|          | 2          | Max. 10.8       | 23002213-01-XXX | 2                 | Max. 10.8       | 23002223-01-XXX | 2              | Max. 10.8       | 23002233-01-XXX |
|          | 3          | Max. 10.8       | 23003213-01-XXX | 3                 | Max. 10.8       | 23003223-01-XXX | 3              | Max. 10.8       | 23003233-01-XXX |
|          | 4          | Max. 10.8       | 23004213-01-XXX | 4                 | Max. 10.8       | 23004223-01-XXX | 4              | Max. 10.8       | 23004233-01-XXX |
|          | 5          | Max. 10.8       | 23005213-01-XXX | 5                 | Max. 10.8       | 23005223-01-XXX | 5              | Max. 10.8       | 23005233-01-XXX |
|          | 6          | Max. 10.8       | 23006213-01-XXX | 6                 | Max. 10.8       | 23006223-01-XXX | 6              | Max. 10.8       | 23006233-01-XXX |
|          | 7          | Max. 10.8       | 23007213-01-XXX | 7                 | Max. 10.8       | 23007223-01-XXX | 7              | Max. 10.8       | 23007233-01-XXX |
|          | 8          | Max. 10.8       | 23008213-01-XXX | 8                 | Max. 10.8       | 23008223-01-XXX | 8              | Max. 10.8       | 23008233-01-XXX |
|          | 3+5        | Max. 10.8       | 23305213-01-XXX | 3+5               | Max. 10.8       | 23305223-01-XXX | 3+5            | Max. 10.8       | 23305233-01-XXX |
|          | 9          | Max. 10.8       | 23009213-01-XXX | 9                 | Max. 10.8       | 23009223-01-XXX | 9              | Max. 10.8       | 23009233-01-XXX |
|          | 10         | Max. 10.8       | 23010213-01-XXX | 10                | Max. 10.8       | 23010223-01-XXX | 10             | Max. 10.8       | 23010233-01-XXX |
|          | 12         | Max. 10.8       | 23012213-01-XXX | 12                | Max. 10.8       | 23012223-01-XXX | 12             | Max. 10.8       | 23012233-01-XXX |
|          | 14         | Max. 10.8       | 23014213-01-XXX | 14                | Max. 10.8       | 23014223-01-XXX | 14             | Max. 10.8       | 23014233-01-XXX |
|          | 18         | Max. 10.8       | 23018213-01-XXX | 18                | Max. 10.8       | 23018223-01-XXX | 18             | Max. 10.8       | 23018233-01-XXX |

### Specifications

|                          |                            |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18  |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Environmental Protection | IP67(Mated)                |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Operating Temperature    | - 40°C - 80°C              |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 5A  | 5A  | 2A  |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Female Pin

| Description | Molded, 90°<br>Screw Type, Solder  | Molded, 90°<br>Lock bayonet Type, Solder | Molded, 90°<br>Push Lock Type, Solder |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
|-------------|--|--|---------------------------------------|-------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|--|----------|-----------------|-------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|--|----------|-----------------|-------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|
| Figure      |  |  |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Drawing     |  |  |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002214-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003214-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004214-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005214-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006214-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007214-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008214-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305214-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009214-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010214-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012214-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014214-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018214-01-XXX</td></tr> </tbody> </table> | Contacts                                 | Cable Range(mm)                       | Part-Number | 2 | Max. 10.8 | 23002214-01-XXX | 3 | Max. 10.8 | 23003214-01-XXX | 4 | Max. 10.8 | 23004214-01-XXX | 5 | Max. 10.8 | 23005214-01-XXX | 6 | Max. 10.8 | 23006214-01-XXX | 7 | Max. 10.8 | 23007214-01-XXX | 8 | Max. 10.8 | 23008214-01-XXX | 3+5 | Max. 10.8 | 23305214-01-XXX | 9 | Max. 10.8 | 23009214-01-XXX | 10 | Max. 10.8 | 23010214-01-XXX | 12 | Max. 10.8 | 23012214-01-XXX | 14 | Max. 10.8 | 23014214-01-XXX | 18 | Max. 10.8 | 23018214-01-XXX | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002224-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003224-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004224-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005224-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006224-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007224-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008224-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305224-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009224-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010224-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012224-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014224-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018224-01-XXX</td></tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | Max. 10.8 | 23002224-01-XXX | 3 | Max. 10.8 | 23003224-01-XXX | 4 | Max. 10.8 | 23004224-01-XXX | 5 | Max. 10.8 | 23005224-01-XXX | 6 | Max. 10.8 | 23006224-01-XXX | 7 | Max. 10.8 | 23007224-01-XXX | 8 | Max. 10.8 | 23008224-01-XXX | 3+5 | Max. 10.8 | 23305224-01-XXX | 9 | Max. 10.8 | 23009224-01-XXX | 10 | Max. 10.8 | 23010224-01-XXX | 12 | Max. 10.8 | 23012224-01-XXX | 14 | Max. 10.8 | 23014224-01-XXX | 18 | Max. 10.8 | 23018224-01-XXX | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002234-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003234-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004234-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005234-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006234-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007234-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008234-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305234-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009234-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010234-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012234-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014234-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018234-01-XXX</td></tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | Max. 10.8 | 23002234-01-XXX | 3 | Max. 10.8 | 23003234-01-XXX | 4 | Max. 10.8 | 23004234-01-XXX | 5 | Max. 10.8 | 23005234-01-XXX | 6 | Max. 10.8 | 23006234-01-XXX | 7 | Max. 10.8 | 23007234-01-XXX | 8 | Max. 10.8 | 23008234-01-XXX | 3+5 | Max. 10.8 | 23305234-01-XXX | 9 | Max. 10.8 | 23009234-01-XXX | 10 | Max. 10.8 | 23010234-01-XXX | 12 | Max. 10.8 | 23012234-01-XXX | 14 | Max. 10.8 | 23014234-01-XXX | 18 | Max. 10.8 | 23018234-01-XXX |
| Contacts    | Cable Range(mm)  | Part-Number                              |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018214-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Contacts    | Cable Range(mm)  | Part-Number                              |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018224-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Contacts    | Cable Range(mm)  | Part-Number                              |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018234-01-XXX                          |                                       |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5   | 9                           | 10                          | 12  | 14  | 18  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|---|-----------------------------|-----------------------------|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG+24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Environmental Protection | IP67(Mated)                |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Operating Temperature    | - 40 °C - 80 °C            |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V   | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A  | 5A                          | 5A                          | 5A  | 5A  | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Stantart Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Front Panel Mount & Female Pin

| Description | Front Panel Mount<br>Screw Type, Solder | Front Panel Mount<br>Lock Bayonet Type, Solder | Front Panel Mount<br>Push Lock Type, Solder |
|-------------|---|--|---|
| Figure      |   |  |   |
| Drawing     |   |  |   |

| Part-No. | Contacts | Part-Number | Contacts | Part-Number | Contacts | Part-Number |
|----------|----------|-------------|----------|-------------|----------|-------------|
|          | 2        | 23002615-01 | 2        | 23002625-01 | 2        | 23002635-01 |
|          | 3        | 23003615-01 | 3        | 23003625-01 | 3        | 23003635-01 |
|          | 4        | 23004615-01 | 4        | 23004625-01 | 4        | 23004635-01 |
|          | 5        | 23005615-01 | 5        | 23005625-01 | 5        | 23005635-01 |
|          | 6        | 23006615-01 | 6        | 23006625-01 | 6        | 23006635-01 |
|          | 7        | 23007615-01 | 7        | 23007625-01 | 7        | 23007635-01 |
|          | 8        | 23008615-01 | 8        | 23008625-01 | 8        | 23008635-01 |
|          | 3+5      | 23305615-01 | 3+5      | 23305625-01 | 3+5      | 23305635-01 |
|          | 9        | 23009615-01 | 9        | 23009625-01 | 9        | 23009635-01 |
|          | 10       | 23010615-01 | 10       | 23010625-01 | 10       | 23010635-01 |
|          | 12       | 23012615-01 | 12       | 23012625-01 | 12       | 23012635-01 |
|          | 14       | 23014615-01 | 14       | 23014625-01 | 14       | 23014635-01 |
|          | 18       | 23018615-01 | 18       | 23018625-01 | 18       | 23018635-01 |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5   | 9                           | 10                          | 12  | 14  | 18  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|---|-----------------------------|-----------------------------|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG+24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |      |                            |                             |      | Max. 4.0mm                  |     |   | Max. 2.5mm                  |                             |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |   | IP67 (Mated)                |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Operating Temperature    | - 40°C - 105°C             |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V   | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A  | 5A                          | 5A                          | 2A  | 2A  | 2A  |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Front Panel Mount & Female Pin

| Description | Front Panel Mount<br>Screw Type, PCB  | Front Panel Mount<br>Lock Bayonet Type, PCB | Front Panel Mount<br>Push Lock Type, PCB |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
|-------------|---|---|--|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|-----|-------------|---|-------------|----|-------------|----|-------------|----|-------------|----|-------------|---|----------|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|-----|-------------|---|-------------|----|-------------|----|-------------|----|-------------|----|-------------|---|----------|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|-----|-------------|---|-------------|----|-------------|----|-------------|----|-------------|----|-------------|
|             | Figure  |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| Drawing     |   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>23002615-02</td></tr> <tr><td>3</td><td>23003615-02</td></tr> <tr><td>4</td><td>23004615-02</td></tr> <tr><td>5</td><td>23005615-02</td></tr> <tr><td>6</td><td>23006615-02</td></tr> <tr><td>7</td><td>23007615-02</td></tr> <tr><td>8</td><td>23008615-02</td></tr> <tr><td>3+5</td><td>23305615-02</td></tr> <tr><td>9</td><td>23009615-02</td></tr> <tr><td>10</td><td>23010615-02</td></tr> <tr><td>12</td><td>23012615-02</td></tr> <tr><td>14</td><td>23014615-02</td></tr> <tr><td>18</td><td>23018615-02</td></tr> </tbody> </table> | Contacts                                    | Part-Number                              | 2 | 23002615-02 | 3 | 23003615-02 | 4 | 23004615-02 | 5 | 23005615-02 | 6 | 23006615-02 | 7 | 23007615-02 | 8 | 23008615-02 | 3+5 | 23305615-02 | 9 | 23009615-02 | 10 | 23010615-02 | 12 | 23012615-02 | 14 | 23014615-02 | 18 | 23018615-02 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>23002625-02</td></tr> <tr><td>3</td><td>23003625-02</td></tr> <tr><td>4</td><td>23004625-02</td></tr> <tr><td>5</td><td>23005625-02</td></tr> <tr><td>6</td><td>23006625-02</td></tr> <tr><td>7</td><td>23007625-02</td></tr> <tr><td>8</td><td>23008625-02</td></tr> <tr><td>3+5</td><td>23305625-02</td></tr> <tr><td>9</td><td>23009625-02</td></tr> <tr><td>10</td><td>23010625-02</td></tr> <tr><td>12</td><td>23012625-02</td></tr> <tr><td>14</td><td>23014625-02</td></tr> <tr><td>18</td><td>23018625-02</td></tr> </tbody> </table> | Contacts | Part-Number | 2 | 23002625-02 | 3 | 23003625-02 | 4 | 23004625-02 | 5 | 23005625-02 | 6 | 23006625-02 | 7 | 23007625-02 | 8 | 23008625-02 | 3+5 | 23305625-02 | 9 | 23009625-02 | 10 | 23010625-02 | 12 | 23012625-02 | 14 | 23014625-02 | 18 | 23018625-02 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>23002635-02</td></tr> <tr><td>3</td><td>23003635-02</td></tr> <tr><td>4</td><td>23004635-02</td></tr> <tr><td>5</td><td>23005635-02</td></tr> <tr><td>6</td><td>23006635-02</td></tr> <tr><td>7</td><td>23007635-02</td></tr> <tr><td>8</td><td>23008635-02</td></tr> <tr><td>3+5</td><td>23305635-02</td></tr> <tr><td>9</td><td>23009635-02</td></tr> <tr><td>10</td><td>23010635-02</td></tr> <tr><td>12</td><td>23012635-02</td></tr> <tr><td>14</td><td>23014635-02</td></tr> <tr><td>18</td><td>23018635-02</td></tr> </tbody> </table> | Contacts | Part-Number | 2 | 23002635-02 | 3 | 23003635-02 | 4 | 23004635-02 | 5 | 23005635-02 | 6 | 23006635-02 | 7 | 23007635-02 | 8 | 23008635-02 | 3+5 | 23305635-02 | 9 | 23009635-02 | 10 | 23010635-02 | 12 | 23012635-02 | 14 | 23014635-02 | 18 | 23018635-02 |
| Contacts    | Part-Number   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 2           | 23002615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3           | 23003615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 4           | 23004615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 5           | 23005615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 6           | 23006615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 7           | 23007615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 8           | 23008615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3+5         | 23305615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 9           | 23009615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 10          | 23010615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 12          | 23012615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 14          | 23014615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 18          | 23018615-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| Contacts    | Part-Number   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 2           | 23002625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3           | 23003625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 4           | 23004625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 5           | 23005625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 6           | 23006625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 7           | 23007625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 8           | 23008625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3+5         | 23305625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 9           | 23009625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 10          | 23010625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 12          | 23012625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 14          | 23014625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 18          | 23018625-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| Contacts    | Part-Number   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 2           | 23002635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3           | 23003635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 4           | 23004635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 5           | 23005635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 6           | 23006635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 7           | 23007635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 8           | 23008635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 3+5         | 23305635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 9           | 23009635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 10          | 23010635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 12          | 23012635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 14          | 23014635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |
| 18          | 23018635-02   |   |  |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |   |          |             |   |             |   |             |   |             |   |             |   |             |   |             |   |             |     |             |   |             |    |             |    |             |    |             |    |             |

### Specifications




| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5   | 9                           | 10                          | 12  | 14  | 18  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|---|-----------------------------|-----------------------------|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG+24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |      |                            |                             |      | Max. 4.0mm                  |     |   | Max. 2.5mm                  |                             |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |   | IP67 (Mated)                |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Operating Temperature    | - 40°C - 105°C             |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V   | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A  | 5A                          | 5A                          | 2A  | 2A  | 2A  |

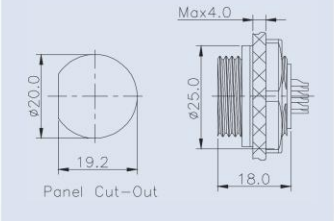
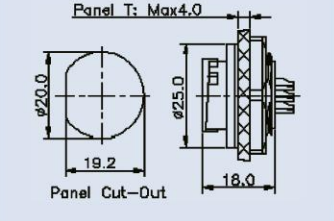
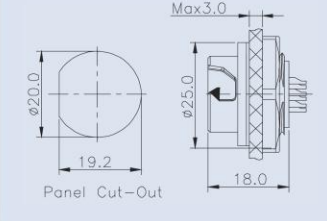
# MIDDLE SERIES





















## Middle Series Specifications

### Middle Series, Rear Panel Mount & Female Pin

|             |   |   |   |
|-------------|---|---|---|
| Description | Rear Panel Mount<br>Screw Type, Solder  | Rear Panel Mount<br>Lock Bayonet Type, Solder                                     | Rear Panel Mount<br>Push Lock Type, Solder  |
| Figure      |  |  |  |

|         |   |  |   |
|---------|---|--|---|
| Drawing |  |  |  |
|---------|---|--|---|

| Part-No. | Screw Type, Solder |   | Lock Bayonet Type, Solder |  | Push Lock Type, Solder |   |
|----------|--------------------|---|---------------------------|--|------------------------|---|
|          | Contacts           | Part-Number   | Contacts                  | Part-Number  | Contacts               | Part-Number   |
|          | 2                  | 23002615-03   | 2                         | 23002625-03   | 2                      | 23002635-03   |
|          | 3                  | 23003615-03  | 3                         | 23003625-03  | 3                      | 23003635-03  |
|          | 4                  | 23004615-03   | 4                         | 23004625-03  | 4                      | 23004635-03   |
|          | 5                  | 23005615-03  | 5                         | 23005625-03  | 5                      | 23005635-03  |
|          | 6                  | 23006615-03  | 6                         | 23006625-03  | 6                      | 23006635-03  |
|          | 7                  | 23007615-03  | 7                         | 23007625-03  | 7                      | 23007635-03  |
|          | 8                  | 23008615-03  | 8                         | 23008625-03  | 8                      | 23008635-03  |
|          | 3+5                | 23305615-03   | 3+5                       | 23305625-03  | 3+5                    | 23305635-03   |
|          | 9                  | 23009615-03   | 9                         | 23009625-03  | 9                      | 23009635-03   |
|          | 10                 | 23010615-03   | 10                        | 23010625-03  | 10                     | 23010635-03   |
|          | 12                 | 23012615-03   | 12                        | 23012625-03  | 12                     | 23012635-03   |
|          | 14                 | 23014615-03   | 14                        | 23014625-03  | 14                     | 23014635-03   |
|          | 18                 | 23018615-03   | 18                        | 23018625-03  | 18                     | 23018635-03   |

### Specifications

|                          |                            |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18  |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Panel Thickness          | Max. 4.0mm                 |      |                            |                             |      | Max. 4.0mm                  |     |  | Max. 3.0mm                  |                             |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  | IP67 (Mated)                |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  | 2A  | 2A  |

Company Profile | Micro Series | 500 Series | Mini Series | Standard Series | Middle Series | Large Series | R415 Series | USB Series | T Adapter Series | Splitter Series | M15 Series | CAC3 Series | FC Series | RW Series | Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Male Pin

|             |   |  |   |
|-------------|---|--|---|
| Description | Field Installable, 180°<br>Screw Type, Solder | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |
| Figure      |   |  |   |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part-No. | Screw Type |                 |             | Lock Bayonet Type |                 |             | Push Lock Type |                 |             |
|----------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|          | Contacts   | Cable Range(mm) | Part-Number | Contacts          | Cable Range(mm) | Part-Number | Contacts       | Cable Range(mm) | Part-Number |
|          | 2          | 6.0 - 7.3       | 23002111-01 | 2                 | 6.0 - 7.3       | 23002121-01 | 2              | 6.0 - 7.3       | 23002131-01 |
|          |            | 7.3 - 9.0       | 23002111-02 |                   | 7.3 - 9.0       | 23002121-02 |                | 7.3 - 9.0       | 23002131-02 |
|          | 3          | 6.0 - 7.3       | 23003111-01 | 3                 | 6.0 - 7.3       | 23003121-01 | 3              | 6.0 - 7.3       | 23003131-01 |
|          |            | 7.3 - 9.0       | 23003111-02 |                   | 7.3 - 9.0       | 23003121-02 |                | 7.3 - 9.0       | 23003131-02 |
|          | 4          | 6.0 - 7.3       | 23004111-01 | 4                 | 6.0 - 7.3       | 23004121-01 | 4              | 6.0 - 7.3       | 23004131-01 |
|          |            | 7.3 - 9.0       | 23004111-02 |                   | 7.3 - 9.0       | 23004121-02 |                | 7.3 - 9.0       | 23004131-02 |
|          | 5          | 6.0 - 7.3       | 23005111-01 | 5                 | 6.0 - 7.3       | 23005121-01 | 5              | 6.0 - 7.3       | 23005131-01 |
|          |            | 7.3 - 9.0       | 23005111-02 |                   | 7.3 - 9.0       | 23005121-02 |                | 7.3 - 9.0       | 23005131-02 |
|          | 6          | 6.0 - 7.3       | 23006111-01 | 6                 | 6.0 - 7.3       | 23006121-01 | 6              | 6.0 - 7.3       | 23006131-01 |
|          |            | 7.3 - 9.0       | 23006111-02 |                   | 7.3 - 9.0       | 23006121-02 |                | 7.3 - 9.0       | 23006131-02 |
|          | 7          | 6.0 - 7.3       | 23007111-01 | 7                 | 6.0 - 7.3       | 23007121-01 | 7              | 6.0 - 7.3       | 23007131-01 |
|          |            | 7.3 - 9.0       | 23007111-02 |                   | 7.3 - 9.0       | 23007121-02 |                | 7.3 - 9.0       | 23007131-02 |
|          | 8          | 6.0 - 7.3       | 23008111-01 | 8                 | 6.0 - 7.3       | 23008121-01 | 8              | 6.0 - 7.3       | 23008131-01 |
|          |            | 7.3 - 9.0       | 23008111-02 |                   | 7.3 - 9.0       | 23008121-02 |                | 7.3 - 9.0       | 23008131-02 |
|          | 3+5        | 6.0 - 7.3       | 23305111-01 | 3+5               | 6.0 - 7.3       | 23305121-01 | 3+5            | 6.0 - 7.3       | 23305131-01 |
|          |            | 7.3 - 9.0       | 23305111-02 |                   | 7.3 - 9.0       | 23305121-02 |                | 7.3 - 9.0       | 23305131-02 |
|          | 9          | 6.0 - 7.3       | 23009111-01 | 9                 | 6.0 - 7.3       | 23009121-01 | 9              | 6.0 - 7.3       | 23009131-01 |
|          |            | 7.3 - 9.0       | 23009111-02 |                   | 7.3 - 9.0       | 23009121-02 |                | 7.3 - 9.0       | 23009131-02 |
|          | 10         | 6.0 - 7.3       | 23010111-01 | 10                | 6.0 - 7.3       | 23010121-01 | 10             | 6.0 - 7.3       | 23010131-01 |
|          |            | 7.3 - 9.0       | 23010111-02 |                   | 7.3 - 9.0       | 23010121-02 |                | 7.3 - 9.0       | 23010131-02 |
|          | 12         | 6.0 - 7.3       | 23012111-01 | 12                | 6.0 - 7.3       | 23012121-01 | 12             | 6.0 - 7.3       | 23012131-01 |
|          |            | 7.3 - 9.0       | 23012111-02 |                   | 7.3 - 9.0       | 23012121-02 |                | 7.3 - 9.0       | 23012131-02 |
|          | 14         | 6.0 - 7.3       | 23014111-01 | 14                | 6.0 - 7.3       | 23014121-01 | 14             | 6.0 - 7.3       | 23014131-01 |
|          |            | 7.3 - 9.0       | 23014111-02 |                   | 7.3 - 9.0       | 23014121-02 |                | 7.3 - 9.0       | 23014131-02 |
|          | 18         | 6.0 - 7.3       | 23018111-01 | 18                | 6.0 - 7.3       | 23018121-01 | 18             | 6.0 - 7.3       | 23018131-01 |
|          |            | 7.3 - 9.0       | 23018111-02 |                   | 7.3 - 9.0       | 23018121-02 |                | 7.3 - 9.0       | 23018131-02 |
|          | 2+4        | \               | \           | 2+4               | \               | \           | 2+4            | 6.0 - 7.3       | 23204131-01 |
|          |            | \               | \           |                   | \               | \           |                | 7.3 - 9.0       | 23204131-02 |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18            | 2+4 |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|---------------|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     | 18AWG + 24AWG |     |
| Cable Range              | 6.0 - 7.3mm, 7.3 - 9.0mm   |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  |                             | IP67 (Mated)                |     |     |               |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |     |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 300V+30V      |     |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  | 2A  | 20A+5A        |     |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Slant Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Male Pin

| Description | Molded, 180°<br>Screw Type, Solder | Molded, 180°<br>Lock Bayonet Type, Solder | Molded, 180°<br>Push Lock Type, Solder |
|-------------|------------------------------------|---|--|
| Figure      |                                    |   |  |
| Drawing     |                                    |   |  |

| Part-No. | Screw Type |                 |                 | Lock Bayonet Type |                 |                 | Push Lock Type |                 |                 |
|----------|------------|-----------------|-----------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|
|          | Contacts   | Cable Range(mm) | Part-Number     | Contacts          | Cable Range(mm) | Part-Number     | Contacts       | Cable Range(mm) | Part-Number     |
|          | 2          | Max. 10.8       | 23002113-01-XXX | 2                 | Max. 10.8       | 23002123-01-XXX | 2              | Max:10.8        | 23002133-01-XXX |
|          | 3          | Max. 10.8       | 23003113-01-XXX | 3                 | Max. 10.8       | 23003123-01-XXX | 3              | Max:10.8        | 23003133-01-XXX |
|          | 4          | Max. 10.8       | 23004113-01-XXX | 4                 | Max. 10.8       | 23004123-01-XXX | 4              | Max:10.8        | 23004133-01-XXX |
|          | 5          | Max. 10.8       | 23005113-01-XXX | 5                 | Max. 10.8       | 23005123-01-XXX | 5              | Max:10.8        | 23005133-01-XXX |
|          | 6          | Max. 10.8       | 23006113-01-XXX | 6                 | Max. 10.8       | 23006123-01-XXX | 6              | Max:10.8        | 23006133-01-XXX |
|          | 7          | Max. 10.8       | 23007113-01-XXX | 7                 | Max. 10.8       | 23007123-01-XXX | 7              | Max:10.8        | 23007133-01-XXX |
|          | 8          | Max. 10.8       | 23008113-01-XXX | 8                 | Max. 10.8       | 23008123-01-XXX | 8              | Max:10.8        | 23008133-01-XXX |
|          | 3+5        | Max. 10.8       | 23305113-01-XXX | 3+5               | Max. 10.8       | 23305123-01-XXX | 3+5            | Max:10.8        | 23305133-01-XXX |
|          | 9          | Max. 10.8       | 23009113-01-XXX | 9                 | Max. 10.8       | 23009123-01-XXX | 9              | Max:10.8        | 23009133-01-XXX |
|          | 10         | Max. 10.8       | 23010113-01-XXX | 10                | Max. 10.8       | 23010123-01-XXX | 10             | Max:10.8        | 23010133-01-XXX |
|          | 12         | Max. 10.8       | 23012113-01-XXX | 12                | Max. 10.8       | 23012123-01-XXX | 12             | Max:10.8        | 23012133-01-XXX |
|          | 14         | Max. 10.8       | 23014113-01-XXX | 14                | Max. 10.8       | 23014123-01-XXX | 14             | Max:10.8        | 23014133-01-XXX |
|          | 18         | Max. 10.8       | 23018113-02-XXX | 18                | Max. 10.8       | 23018123-02-XXX | 18             | Max:10.8        | 23018133-02-XXX |
|          | 2+3        | \               | \               | 2+3               | \               | \               | 2+3            | Max.10.8        | 23203133-01-XXX |
|          | 2+4        | \               | \               | 2+4               | \               | \               | 2+4            | Max.10.8        | 23204133-02-XXX |

| Specifications           |                            |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|---------------|----------|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18            | 2+3      | 2+4 |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     | 14AWG + 20AWG |          |     |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |     |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |     |
| Operating Temperature    | - 40°C - 80°C              |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V           | 300V+30V |     |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  | 2A  | 2A            | 20A+5A   |     |

Company Profile | Micro Series | 500 Series | Mini Series | Standard Series | Middle Series | Large Series | R4/5 Series | USB Series | T Adapter Series | Splitter Series | M15 Series | CAC3 Series | FC Series | RW Series | Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Male Pin

| Description | Molded, 90°<br>Screw Type, Solder | Molded, 90°<br>Lock Bayonet Type, Solder | Molded, 90°<br>Push Lock Type, Solder |          |                 |                 |          |                 |                 |
|-------------|-----------------------------------|--|---------------------------------------|----------|-----------------|-----------------|----------|-----------------|-----------------|
|             | Figure                            |  |                                       |          |                 |                 |          |                 |                 |
| Drawing     |                                   |  |                                       |          |                 |                 |          |                 |                 |
| Part-No.    | Contacts                          | Cable Range(mm)                          | Part-Number                           | Contacts | Cable Range(mm) | Part-Number     | Contacts | Cable Range(mm) | Part-Number     |
|             | 2                                 | Max. 10.8                                | 23002114-01-XXX                       | 2        | Max. 10.8       | 23002124-01-XXX | 2        | Max:10.8        | 23002134-01-XXX |
|             | 3                                 | Max. 10.8                                | 23003114-01-XXX                       | 3        | Max. 10.8       | 23003124-01-XXX | 3        | Max:10.8        | 23003134-01-XXX |
|             | 4                                 | Max. 10.8                                | 23004114-01-XXX                       | 4        | Max. 10.8       | 23004124-01-XXX | 4        | Max:10.8        | 23004134-01-XXX |
|             | 5                                 | Max. 10.8                                | 23005114-01-XXX                       | 5        | Max. 10.8       | 23005124-01-XXX | 5        | Max:10.8        | 23005134-01-XXX |
|             | 6                                 | Max. 10.8                                | 23006114-01-XXX                       | 6        | Max. 10.8       | 23006124-01-XXX | 6        | Max:10.8        | 23006134-01-XXX |
|             | 7                                 | Max. 10.8                                | 23007114-01-XXX                       | 7        | Max. 10.8       | 23007124-01-XXX | 7        | Max:10.8        | 23007134-01-XXX |
|             | 8                                 | Max. 10.8                                | 23008114-01-XXX                       | 8        | Max. 10.8       | 23008124-01-XXX | 8        | Max:10.8        | 23008134-01-XXX |
|             | 3+5                               | Max. 10.8                                | 23305114-01-XXX                       | 3+5      | Max. 10.8       | 23305124-01-XXX | 3+5      | Max:10.8        | 23305134-01-XXX |
|             | 9                                 | Max. 10.8                                | 23009114-01-XXX                       | 9        | Max. 10.8       | 23009124-01-XXX | 9        | Max:10.8        | 23009134-01-XXX |
|             | 10                                | Max. 10.8                                | 23010114-01-XXX                       | 10       | Max. 10.8       | 23010124-01-XXX | 10       | Max:10.8        | 23010134-01-XXX |
|             | 12                                | Max. 10.8                                | 23012114-01-XXX                       | 12       | Max. 10.8       | 23012124-01-XXX | 12       | Max:10.8        | 23012134-01-XXX |
|             | 14                                | Max. 10.8                                | 23014114-01-XXX                       | 14       | Max. 10.8       | 23014124-01-XXX | 14       | Max:10.8        | 23014134-01-XXX |
|             | 18                                | Max. 10.8                                | 23018114-02-XXX                       | 18       | Max. 10.8       | 23018124-01-XXX | 18       | Max:10.8        | 23018134-01-XXX |
|             | 2+3                               | \  | \                                     | 2+3      | \               | \               | 2+3      | Max. 10.8       | 23203134-01-XXX |
|             | 2+4                               | \  | \                                     | 2+4      | \               | \               | 2+4      | Max. 10.8       | 23204134-01-XXX |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14 | 18            | 2+3      | 2+4 |  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|----|---------------|----------|-----|--|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |    | 14AWG + 20AWG |          |     |  |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |  |                             |                             |     |    |               |          |     |  |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |      |                             |     |  |                             |                             |     |    |               |          |     |  |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |    |               |          |     |  |
| Operating Temperature    | - 40°C - 80°C              |      |                            |                             |      |                             |     |  |                             |                             |     |    |               |          |     |  |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V |    |               | 300V+30V |     |  |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  |    |               | 20A+5A   |     |  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Stantard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Female Connector & Male Pin

|             |  |   |  |
|-------------|--|---|--|
| Description | Field Installable, 180° Screw Type, Solder | Field Installable, 180° Lock bayonet Type, Solder | Field Installable, 180° Push Lock Type, Solder |
| Figure      |  |   |  |

|         |  |  |  |
|---------|--|--|--|
| Drawing |  |  |  |
|---------|--|--|--|

| Part-No. | Screw Type |                 |             | Lock bayonet Type |                 |             | Push Lock Type |                 |             |
|----------|------------|-----------------|-------------|-------------------|-----------------|-------------|----------------|-----------------|-------------|
|          | Contacts   | Cable Range(mm) | Part-Number | Contacts          | Cable Range(mm) | Part-Number | Contacts       | Cable Range(mm) | Part-Number |
| 2        | 2          | 6.0 - 7.3       | 23002311-01 | 2                 | 6.0 - 7.3       | 23002321-01 | 2              | 6.0 - 7.3       | 23002331-01 |
|          |            | 7.3 - 9.0       | 23002311-02 |                   | 7.3 - 9.0       | 23002321-02 |                | 7.3 - 9.0       | 23002331-02 |
| 3        | 3          | 6.0 - 7.3       | 23003311-01 | 3                 | 6.0 - 7.3       | 23003321-01 | 3              | 6.0 - 7.3       | 23003331-01 |
|          |            | 7.3 - 9.0       | 23003311-02 |                   | 7.3 - 9.0       | 23003321-02 |                | 7.3 - 9.0       | 23003331-02 |
| 4        | 4          | 6.0 - 7.3       | 23004311-01 | 4                 | 6.0 - 7.3       | 23004321-01 | 4              | 6.0 - 7.3       | 23004331-01 |
|          |            | 7.3 - 9.0       | 23004311-02 |                   | 7.3 - 9.0       | 23004321-02 |                | 7.3 - 9.0       | 23004331-02 |
| 5        | 5          | 6.0 - 7.3       | 23005311-01 | 5                 | 6.0 - 7.3       | 23005321-01 | 5              | 6.0 - 7.3       | 23005331-01 |
|          |            | 7.3 - 9.0       | 23005311-02 |                   | 7.3 - 9.0       | 23005321-02 |                | 7.3 - 9.0       | 23005331-02 |
| 6        | 6          | 6.0 - 7.3       | 23006311-01 | 6                 | 6.0 - 7.3       | 23006321-01 | 6              | 6.0 - 7.3       | 23006331-01 |
|          |            | 7.3 - 9.0       | 23006311-02 |                   | 7.3 - 9.0       | 23006321-02 |                | 7.3 - 9.0       | 23006331-02 |
| 7        | 7          | 6.0 - 7.3       | 23007311-01 | 7                 | 6.0 - 7.3       | 23007321-01 | 7              | 6.0 - 7.3       | 23007331-01 |
|          |            | 7.3 - 9.0       | 23007311-02 |                   | 7.3 - 9.0       | 23007321-02 |                | 7.3 - 9.0       | 23007331-02 |
| 8        | 8          | 6.0 - 7.3       | 23008311-01 | 8                 | 6.0 - 7.3       | 23008321-01 | 8              | 6.0 - 7.3       | 23008331-01 |
|          |            | 7.3 - 9.0       | 23008311-02 |                   | 7.3 - 9.0       | 23008321-02 |                | 7.3 - 9.0       | 23008331-02 |
| 3+5      | 3+5        | 6.0 - 7.3       | 23305311-01 | 3+5               | 6.0 - 7.3       | 23305321-01 | 3+5            | 6.0 - 7.3       | 23305331-01 |
|          |            | 7.3 - 9.0       | 23305311-02 |                   | 7.3 - 9.0       | 23305321-02 |                | 7.3 - 9.0       | 23305331-02 |
| 9        | 9          | 6.0 - 7.3       | 23009311-01 | 9                 | 6.0 - 7.3       | 23009321-01 | 9              | 6.0 - 7.3       | 23009331-01 |
|          |            | 7.3 - 9.0       | 23009311-02 |                   | 7.3 - 9.0       | 23009321-02 |                | 7.3 - 9.0       | 23009331-02 |
| 10       | 10         | 6.0 - 7.3       | 23010311-01 | 10                | 6.0 - 7.3       | 23010321-01 | 10             | 6.0 - 7.3       | 23010331-01 |
|          |            | 7.3 - 9.0       | 23010311-02 |                   | 7.3 - 9.0       | 23010321-02 |                | 7.3 - 9.0       | 23010331-02 |
| 12       | 12         | 6.0 - 7.3       | 23012311-01 | 12                | 6.0 - 7.3       | 23012321-01 | 12             | 6.0 - 7.3       | 23012331-01 |
|          |            | 7.3 - 9.0       | 23012311-02 |                   | 7.3 - 9.0       | 23012321-02 |                | 7.3 - 9.0       | 23012331-02 |
| 14       | 14         | 6.0 - 7.3       | 23014311-01 | 14                | 6.0 - 7.3       | 23014321-01 | 14             | 6.0 - 7.3       | 23014331-01 |
|          |            | 7.3 - 9.0       | 23014311-02 |                   | 7.3 - 9.0       | 23014321-02 |                | 7.3 - 9.0       | 23014331-02 |
| 18       | 18         | 6.0 - 7.3       | 23018311-01 | 18                | 6.0 - 7.3       | 23018321-01 | 18             | 6.0 - 7.3       | 23018331-01 |
|          |            | 7.3 - 9.0       | 23018311-02 |                   | 7.3 - 9.0       | 23018321-02 |                | 7.3 - 9.0       | 23018331-02 |




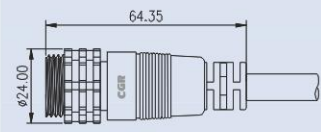
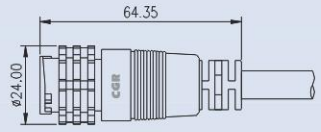
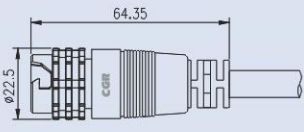
| Specifications           |                            |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18  |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Cable Range              | 6.0 - 7.3mm, 7.3 - 9.0mm   |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Environmental Protection | IP68 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  |                             | IP67 (Mated)                |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |      |                             |     |  |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 5A  | 5A  | 2A  |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Female Connector & Male Pin

| Description | Molded, 180°<br>Screw Type, Solder   | Molded, 180°<br>Lock bayonet Type, Solder  | Molded, 180°<br>Push Lock Type, Solder  |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
|-------------|--|--|---|---|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|--|----------|-----------------|-------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|--|----------|-----------------|-------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|---|-----------|-----------------|-----|-----------|-----------------|---|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|----|-----------|-----------------|
|             | Figure   |   |   |  |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Drawing     |   |  |  |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002313-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003313-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004313-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005313-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006313-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007313-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008313-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305313-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009313-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010313-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012313-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014313-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018313-01-XXX</td></tr> </tbody> </table> | Contacts   | Cable Range(mm)   | Part-Number   | 2 | Max. 10.8 | 23002313-01-XXX | 3 | Max. 10.8 | 23003313-01-XXX | 4 | Max. 10.8 | 23004313-01-XXX | 5 | Max. 10.8 | 23005313-01-XXX | 6 | Max. 10.8 | 23006313-01-XXX | 7 | Max. 10.8 | 23007313-01-XXX | 8 | Max. 10.8 | 23008313-01-XXX | 3+5 | Max. 10.8 | 23305313-01-XXX | 9 | Max. 10.8 | 23009313-01-XXX | 10 | Max. 10.8 | 23010313-01-XXX | 12 | Max. 10.8 | 23012313-01-XXX | 14 | Max. 10.8 | 23014313-01-XXX | 18 | Max. 10.8 | 23018313-01-XXX | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002323-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003323-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004323-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005323-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006323-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007323-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008323-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305323-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009323-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010323-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012323-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014323-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018323-01-XXX</td></tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | Max. 10.8 | 23002323-01-XXX | 3 | Max. 10.8 | 23003323-01-XXX | 4 | Max. 10.8 | 23004323-01-XXX | 5 | Max. 10.8 | 23005323-01-XXX | 6 | Max. 10.8 | 23006323-01-XXX | 7 | Max. 10.8 | 23007323-01-XXX | 8 | Max. 10.8 | 23008323-01-XXX | 3+5 | Max. 10.8 | 23305323-01-XXX | 9 | Max. 10.8 | 23009323-01-XXX | 10 | Max. 10.8 | 23010323-01-XXX | 12 | Max. 10.8 | 23012323-01-XXX | 14 | Max. 10.8 | 23014323-01-XXX | 18 | Max. 10.8 | 23018323-01-XXX | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td>2</td><td>Max. 10.8</td><td>23002333-01-XXX</td></tr> <tr><td>3</td><td>Max. 10.8</td><td>23003333-01-XXX</td></tr> <tr><td>4</td><td>Max. 10.8</td><td>23004333-01-XXX</td></tr> <tr><td>5</td><td>Max. 10.8</td><td>23005333-01-XXX</td></tr> <tr><td>6</td><td>Max. 10.8</td><td>23006333-01-XXX</td></tr> <tr><td>7</td><td>Max. 10.8</td><td>23007333-01-XXX</td></tr> <tr><td>8</td><td>Max. 10.8</td><td>23008333-01-XXX</td></tr> <tr><td>3+5</td><td>Max. 10.8</td><td>23305333-01-XXX</td></tr> <tr><td>9</td><td>Max. 10.8</td><td>23009333-01-XXX</td></tr> <tr><td>10</td><td>Max. 10.8</td><td>23010333-01-XXX</td></tr> <tr><td>12</td><td>Max. 10.8</td><td>23012333-01-XXX</td></tr> <tr><td>14</td><td>Max. 10.8</td><td>23014333-01-XXX</td></tr> <tr><td>18</td><td>Max. 10.8</td><td>23018333-01-XXX</td></tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | Max. 10.8 | 23002333-01-XXX | 3 | Max. 10.8 | 23003333-01-XXX | 4 | Max. 10.8 | 23004333-01-XXX | 5 | Max. 10.8 | 23005333-01-XXX | 6 | Max. 10.8 | 23006333-01-XXX | 7 | Max. 10.8 | 23007333-01-XXX | 8 | Max. 10.8 | 23008333-01-XXX | 3+5 | Max. 10.8 | 23305333-01-XXX | 9 | Max. 10.8 | 23009333-01-XXX | 10 | Max. 10.8 | 23010333-01-XXX | 12 | Max. 10.8 | 23012333-01-XXX | 14 | Max. 10.8 | 23014333-01-XXX | 18 | Max. 10.8 | 23018333-01-XXX |
| Contacts    | Cable Range(mm)  | Part-Number  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018313-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Contacts    | Cable Range(mm)  | Part-Number  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018323-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| Contacts    | Cable Range(mm)  | Part-Number  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 2           | Max. 10.8  | 23002333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3           | Max. 10.8  | 23003333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 4           | Max. 10.8  | 23004333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 5           | Max. 10.8  | 23005333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 6           | Max. 10.8  | 23006333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 7           | Max. 10.8  | 23007333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 8           | Max. 10.8  | 23008333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 3+5         | Max. 10.8  | 23305333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 9           | Max. 10.8  | 23009333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 10          | Max. 10.8  | 23010333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 12          | Max. 10.8  | 23012333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 14          | Max. 10.8  | 23014333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |
| 18          | Max. 10.8  | 23018333-01-XXX  |   |   |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |  |          |                 |             |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |   |           |                 |     |           |                 |   |           |                 |    |           |                 |    |           |                 |    |           |                 |    |           |                 |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5   | 9                           | 10                          | 12  | 14  | 18  |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|---|-----------------------------|-----------------------------|-----|-----|-----|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG+24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     |     |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Operating Temperature    | - 40 °C - 80 °C            |      |                            |                             |      |                             |     |   |                             |                             |     |     |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V   | 60V                         | 30V                         | 30V | 30V | 30V |
| Rated Current(40 °C)     | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A  | 5A                          | 5A                          | 5A  | 5A  | 2A  |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Stantart Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Serie , Female Connector & Female Pin

| Description | Field Installable, 180°<br>Screw Type, Solder  | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|-------------|--|--|---|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|-----|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|-----|---|---|---|---|--|----------|-----------------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|-----|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|-----|---|---|---|---|--|----------|-----------------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|-----|-----------|-------------|-----------|-------------|---|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|----|-----------|-------------|-----------|-------------|-----|-----------|-------------|-----------|-------------|
| Figure      |  |  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| Drawing     |  |  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
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9.0 | 23005411-02 | 6 | 6.0 - 7.3 | 23006411-01 | 7.3 - 9.0 | 23006411-02 | 7 | 6.0 - 7.3 | 23007411-01 | 7.3 - 9.0 | 23007411-02 | 8 | 6.0 - 7.3 | 23008411-01 | 7.3 - 9.0 | 23008411-02 | 3+5 | 6.0 - 7.3 | 23305411-01 | 7.3 - 9.0 | 23305411-02 | 9 | 6.0 - 7.3 | 23009411-01 | 7.3 - 9.0 | 23009411-02 | 10 | 6.0 - 7.3 | 23010411-01 | 7.3 - 9.0 | 23010411-02 | 12 | 6.0 - 7.3 | 23012411-01 | 7.3 - 9.0 | 23012411-02 | 14 | 6.0 - 7.3 | 23014411-01 | 7.3 - 9.0 | 23014411-02 | 18 | 6.0 - 7.3 | 23018411-01 | 7.3 - 9.0 | 23018411-02 | 2+4 | \ | \ | \ | \ | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr><td rowspan="2">2</td><td>6.0 - 7.3</td><td>23002421-01</td></tr> <tr><td>7.3 - 9.0</td><td>23002421-02</td></tr> <tr><td rowspan="2">3</td><td>6.0 - 7.3</td><td>23003421-01</td></tr> <tr><td>7.3 - 9.0</td><td>23003421-02</td></tr> <tr><td rowspan="2">4</td><td>6.0 - 7.3</td><td>23004421-01</td></tr> <tr><td>7.3 - 9.0</td><td>23004421-02</td></tr> <tr><td rowspan="2">5</td><td>6.0 - 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| 2           | 6.0 - 7.3  | 23002411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23002411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3           | 6.0 - 7.3  | 23003411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23003411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 4           | 6.0 - 7.3  | 23004411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23004411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 5           | 6.0 - 7.3  | 23005411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23005411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 6           | 6.0 - 7.3  | 23006411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23006411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 7           | 6.0 - 7.3  | 23007411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23007411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 8           | 6.0 - 7.3  | 23008411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23008411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3+5         | 6.0 - 7.3  | 23305411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23305411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 9           | 6.0 - 7.3  | 23009411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23009411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 10          | 6.0 - 7.3  | 23010411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23010411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 12          | 6.0 - 7.3  | 23012411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23012411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 14          | 6.0 - 7.3  | 23014411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23014411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 18          | 6.0 - 7.3  | 23018411-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23018411-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 2+4         | \  | \  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | \  | \  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 2           | 6.0 - 7.3  | 23002421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23002421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3           | 6.0 - 7.3  | 23003421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23003421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 4           | 6.0 - 7.3  | 23004421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23004421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 5           | 6.0 - 7.3  | 23005421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23005421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 6           | 6.0 - 7.3  | 23006421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23006421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 7           | 6.0 - 7.3  | 23007421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23007421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 8           | 6.0 - 7.3  | 23008421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23008421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3+5         | 6.0 - 7.3  | 23305421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23305421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 9           | 6.0 - 7.3  | 23009421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23009421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 10          | 6.0 - 7.3  | 23010421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23010421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 12          | 6.0 - 7.3  | 23012421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23012421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 14          | 6.0 - 7.3  | 23014421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23014421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 18          | 6.0 - 7.3  | 23018421-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23018421-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 2+4         | \  | \  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | \  | \  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 2           | 6.0 - 7.3  | 23002431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23002431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3           | 6.0 - 7.3  | 23003431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23003431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 4           | 6.0 - 7.3  | 23004431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23004431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 5           | 6.0 - 7.3  | 23005431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23005431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 6           | 6.0 - 7.3  | 23006431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23006431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 7           | 6.0 - 7.3  | 23007431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23007431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 8           | 6.0 - 7.3  | 23008431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23008431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 3+5         | 6.0 - 7.3  | 23305431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23305431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 9           | 6.0 - 7.3  | 23009431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23009431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 10          | 6.0 - 7.3  | 23010431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23010431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 12          | 6.0 - 7.3  | 23012431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23012431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 14          | 6.0 - 7.3  | 23014431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23014431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 18          | 6.0 - 7.3  | 23018431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23018431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
| 2+4         | 6.0 - 7.3  | 23204431-01  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |
|             | 7.3 - 9.0  | 23204431-02  |   |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |   |   |   |   |  |          |                 |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |   |           |             |           |             |     |           |             |           |             |   |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |    |           |             |           |             |     |           |             |           |             |

### Specifications

| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14  | 18            | 2+4      |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|-----|---------------|----------|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |     | 18AWG + 24AWG |          |
| Cable Range              | 6.0 - 7.3mm, 7.3 - 9.0mm   |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |      | IP67 (Mated)                |     |  |                             | IP67 (Mated)                |     |     |               |          |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |      |                             |     |  |                             |                             |     |     |               |          |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V | 30V           | 300V+30V |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  | 2A  | 2A            | 20A+5A   |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Standard Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Female Connector & Female Pin

| Description | Molded, 180°<br>Screw Type, Solder | Molded, 180°<br>Lock Bayonet Type, Solder | Molded, 180°<br>Push Lock Type, Solder |           |                 |                 |           |                 |                 |
|-------------|------------------------------------|---|--|-----------|-----------------|-----------------|-----------|-----------------|-----------------|
|             | Figure                             |   |  |           |                 |                 |           |                 |                 |
| Drawing     |                                    |   |  |           |                 |                 |           |                 |                 |
| Part-No.    | Contacts                           | Cable Range(mm)                           | Part-Number                            | Contacts  | Cable Range(mm) | Part-Number     | Contacts  | Cable Range(mm) | Part-Number     |
|             | 2                                  | Max. 10.8                                 | 23002413-01-XXX                        | 2         | Max. 10.8       | 23002423-01-XXX | 2         | Max. 10.8       | 23002433-01-XXX |
| 3           | Max. 10.8                          | 23003413-01-XXX                           | 3                                      | Max. 10.8 | 23003423-01-XXX | 3               | Max. 10.8 | 23003433-01-XXX |                 |
| 4           | Max. 10.8                          | 23004413-01-XXX                           | 4                                      | Max. 10.8 | 23004423-01-XXX | 4               | Max. 10.8 | 23004433-01-XXX |                 |
| 5           | Max. 10.8                          | 23005413-01-XXX                           | 5                                      | Max. 10.8 | 23005423-01-XXX | 5               | Max. 10.8 | 23005433-01-XXX |                 |
| 6           | Max. 10.8                          | 23006413-01-XXX                           | 6                                      | Max. 10.8 | 23006423-01-XXX | 6               | Max. 10.8 | 23006433-01-XXX |                 |
| 7           | Max. 10.8                          | 23007413-01-XXX                           | 7                                      | Max. 10.8 | 23007423-01-XXX | 7               | Max. 10.8 | 23007433-01-XXX |                 |
| 8           | Max. 10.8                          | 23008413-01-XXX                           | 8                                      | Max. 10.8 | 23008423-01-XXX | 8               | Max. 10.8 | 23008433-01-XXX |                 |
| 3+5         | Max. 10.8                          | 23305413-01-XXX                           | 3+5                                    | Max. 10.8 | 23305423-01-XXX | 3+5             | Max. 10.8 | 23305433-01-XXX |                 |
| 9           | Max. 10.8                          | 23009413-01-XXX                           | 9                                      | Max. 10.8 | 23009423-01-XXX | 9               | Max. 10.8 | 23009433-01-XXX |                 |
| 10          | Max. 10.8                          | 23010413-01-XXX                           | 10                                     | Max. 10.8 | 23010423-01-XXX | 10              | Max. 10.8 | 23010433-01-XXX |                 |
| 12          | Max. 10.8                          | 23012413-01-XXX                           | 12                                     | Max. 10.8 | 23012423-01-XXX | 12              | Max. 10.8 | 23012433-01-XXX |                 |
| 14          | Max. 10.8                          | 23014413-01-XXX                           | 14                                     | Max. 10.8 | 23014423-01-XXX | 14              | Max. 10.8 | 23014433-01-XXX |                 |
| 18          | Max. 10.8                          | 23018413-01-XXX                           | 18                                     | Max. 10.8 | 23018423-01-XXX | 18              | Max. 10.8 | 23018433-01-XXX |                 |
| 2+4         | \                                  | \   | 2+4                                    | \         | \               | 2+4             | Max. 10.8 | 23204433-01-XXX |                 |

| Specifications           |                            |      |                            |                             |      |                             |     |  |                             |                             |     |        |               |     |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|------|-----------------------------|-----|--|-----------------------------|-----------------------------|-----|--------|---------------|-----|
| Number of Contacts       | 2                          | 3    | 4                          | 5                           | 6    | 7                           | 8   | 3+5  | 9                           | 10                          | 12  | 14     | 18            | 2+4 |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 1.0mm <sup>2</sup> (17AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.34mm <sup>2</sup> (22AWG) |     | 1.0mm <sup>2</sup> +0.25mm <sup>2</sup> (17AWG +24AWG) | 0.34mm <sup>2</sup> (22AWG) | 0.25mm <sup>2</sup> (24AWG) |     |        | 14AWG + 20AWG |     |
| Cable Range              | Max. 10.8mm                |      |                            |                             |      |                             |     |  |                             |                             |     |        |               |     |
| Environmental Protection | IP67(Mated)                |      |                            |                             |      |                             |     |  |                             |                             |     |        |               |     |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |      |                             |     |  |                             |                             |     |        |               |     |
| Operating Temperature    | - 40°C - 80°C              |      |                            |                             |      |                             |     |  |                             |                             |     |        |               |     |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V | 60V                         | 60V | 125+30V  | 60V                         | 30V                         | 30V | 30V    | 300V+30V      |     |
| Rated Current(40°C)      | 20A                        | 20A  | 15A                        | 10A                         | 10A  | 5A                          | 5A  | 15A+2A   | 5A                          | 5A                          | 2A  | 20A+5A |               |     |

Company Profile  
Micro Series  
500 Series  
Mini Series  
Slant Series  
Middle Series  
Large Series  
RJ45 Series  
USB Series  
T Adapter Series  
Splitter Series  
M15 Series  
CAC3 Series  
FC Series  
RW Series  
Protective Cap

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Male Pin with Screw

| Description | Field Installable, 180°<br>Screw Type, Solder  | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
|-------------|--|--|---|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|
| Figure      |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Drawing     |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002111-03</td> </tr> </tbody> </table> | Contacts   | Cable Range(mm)                                   | Part-Number | 2 | 6.5 - 9.0 | 23002111-03 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002121-05</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002121-05 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002131-03</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002131-03 |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002111-03  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002121-05  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002131-03  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |

### Middle Series, Female Connector & Female Pin with Screw

| Description | Field Installable, 180°<br>Screw Type, Solder  | Field Installable, 180°<br>Lock Bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
|-------------|--|--|---|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|
| Figure      |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Drawing     |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002411-03</td> </tr> </tbody> </table> | Contacts   | Cable Range(mm)                                   | Part-Number | 2 | 6.5 - 9.0 | 23002411-03 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002421-05</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002421-05 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002431-03</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002431-03 |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002411-03  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002421-05  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002431-03  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |

| Specifications           |                            |
|--------------------------|----------------------------|
| Number of Contacts       | 2                          |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |
| Cable Range              | 6.5mm - 9.0mm              |
| Environmental Protection | IP67(Mated)                |
| Mechanical Life          | 500 mating cycles          |
| Operating Temperature    | - 45°C - 105°C             |
| Voltage Rating           | 300V                       |
| Rated Current(40°C)      | 20A                        |

# MIDDLE SERIES



## Middle Series Specifications

### Middle Series, Male Connector & Female Pin with Screw

| Description | Field Installable, 180°<br>Screw Type, Solder  | Field Installable, 180°<br>Lock bayonet Type, Solder | Field Installable, 180°<br>Push Lock Type, Solder |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
|-------------|--|--|---|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|
| Figure      |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Drawing     |  |  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002211-03</td> </tr> </tbody> </table> | Contacts   | Cable Range(mm)                                   | Part-Number | 2 | 6.5 - 9.0 | 23002211-03 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002221-05</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002221-05 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002231-07</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002231-07 |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002211-03  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002221-05  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002231-07  |   |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |

### Middle Series, Female Connector & Male Pin with Screw

| Description | Molded, 180°<br>Screw Type, Solder   |             |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
|-------------|--|-------------|-----------------|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|--|----------|-----------------|-------------|---|-----------|-------------|
| Figure      |  |             |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Drawing     |  |             |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Part-No.    | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002311-05</td> </tr> </tbody> </table> | Contacts    | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002311-05 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002321-03</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002321-03 | <table border="1"> <thead> <tr> <th>Contacts</th> <th>Cable Range(mm)</th> <th>Part-Number</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6.5 - 9.0</td> <td>23002331-05</td> </tr> </tbody> </table> | Contacts | Cable Range(mm) | Part-Number | 2 | 6.5 - 9.0 | 23002331-05 |
| Contacts    | Cable Range(mm)  | Part-Number |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002311-05 |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002321-03 |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| Contacts    | Cable Range(mm)  | Part-Number |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |
| 2           | 6.5 - 9.0  | 23002331-05 |                 |             |   |           |             |  |          |                 |             |   |           |             |  |          |                 |             |   |           |             |

### Specifications

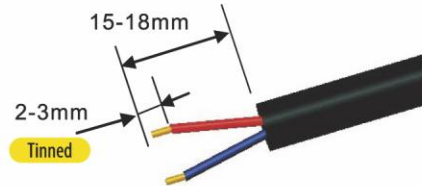
|                          |                            |   |
|--------------------------|----------------------------|---|
| Number of Contacts       | 2                          | 3 |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |   |
| Cable Range              | 6.5mm - 9.0mm              |   |
| Environmental Protection | IP67(Mated)                |   |
| Mechanical Life          | 500 mating cycles          |   |
| Operating Temperature    | - 40°C - 105°C             |   |
| Voltage Rating           | 60V                        |   |
| Rated Current(40°C)      | 20A                        |   |

# Large Series

1. Large Series, Assembly/Wiring Instructions.....P77
2. Large Series, Panel Mount&Male Pin.....P78 - P79
3. Large Series, Male Connector/ Female Pin.....P80 - P81
4. Large Series, Panel Mount&Female Pin.....P82 - P84
5. Large Series, Male Connector/ Male Pin.....P85 - P86
6. Large Series, Female Connector/ Male Pin.....P87 - P88
7. Large Series, Female Connector/ Female Pin.....P89 - P90



## 1 Strip and prepare Cable.



## 2 Thread Seals Nut, Seals Ring, Clamp Ring and O-Ring onto the cable.



## 3 Solder wire.



## 4 Assemble O-Ring into Clamp ring.



## 5 Assemble Clamp Ring to Housing.



## 6 Put Seals Ring to the Clamp Ring.



## 7 Assemble Seals Nut and Clamp Ring.

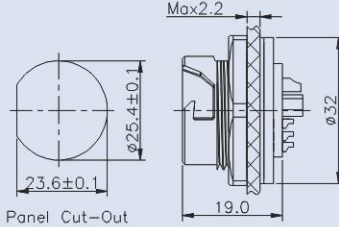





# LARGE SERIES

## Large Series Specifications

### Large Series, Panel Mount & Male Pin

|             |   |
|-------------|---|
| Description | Front Panel Mount<br>Push Lock Type, Solder                                       |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

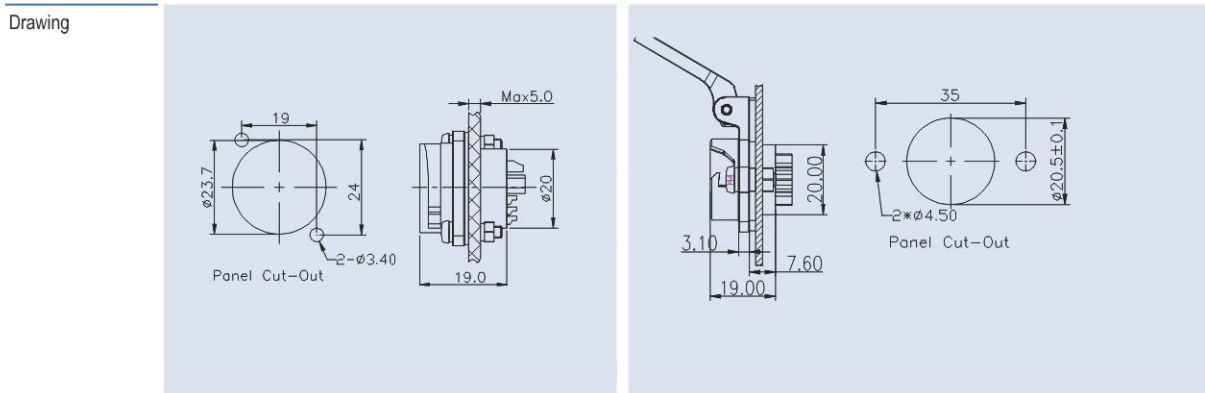
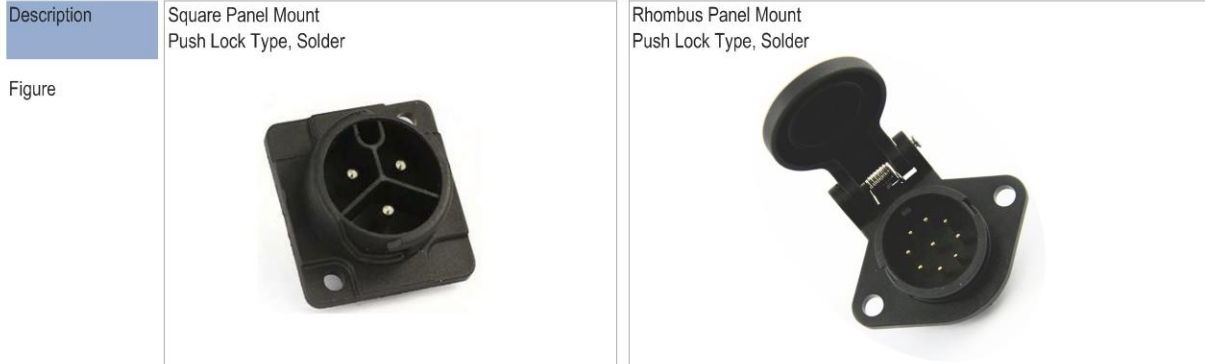
| Part-No. | Contacts | Part Number   |
|----------|----------|---|
|          | 2        | 24002535-01  |
|          | 3(20A)   | 24003535-01  |
|          | 3(50A)   | 24003535-02   |
|          | 9        | 24009535-01   |
|          | 18       | 24018535-01   |
|          | 24       | 24024535-01   |
|          | 3+9(MF)  | 24309535-01  |
|          | 3+11(MF) | 24311535-01   |
|          | 2+18(MF) | 24218535-01   |

| Specifications           |                            |      |                           |                             |                            |        |  |      |      |
|--------------------------|----------------------------|------|---------------------------|-----------------------------|----------------------------|--------|--|------|------|
| Number of Contacts       | 2                          | 3    | 3                         | 9                           | 18                         | 24     | 3+9  | 3+11 | 2+18 |
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) |      | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) |        | 2.5mm <sup>2</sup> +0.2mm <sup>2</sup> (12AWG+24AWG) |      |      |
| Panel Thickness          | Max. 2.2mm                 |      |                           |                             |                            |        |  |      |      |
| Environmental Protection | IP67(Mated)                |      |                           |                             |                            |        |  |      |      |
| Mechanical Life          | 500 mating cycles          |      |                           |                             |                            |        |  |      |      |
| Operating Temperature    | - 45°C - 105°C             |      |                           |                             |                            |        |  |      |      |
| Voltage Rating           | 300V                       | 300V | 300V                      | 125V                        | 125V                       | 300V   | 300V   |      |      |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                       | 5A                          | 5A                         | 20A+5A | 20A+5A   |      |      |

# LARGE SERIES

## Large Series Specifications

### Large Series, Panel Mount & Male Pin



| Part-No. | Square Panel Mount |             |  |  | Rhombus Panel Mount |             |
|----------|--------------------|-------------|--|--|---------------------|-------------|
|          | Contacts           | Part Number |  |  | Contacts            | Part Number |
|          | 2                  | 24002536-01 |  |  | 2                   | 24002536-02 |
|          | 3(20A)             | 24003536-01 |  |  | 3(20A)              | 24003536-03 |
|          | 3(50A)             | 24003536-02 |  |  | 3(50A)              | 24003536-04 |
|          | 9                  | 24009536-01 |  |  | 9                   | 24009536-02 |
|          | 3+9(MF)            | 24309536-01 |  |  | 3+9(MF)             | 24309536-02 |

| Specifications           |                            |      |                           |                             |   |
|--------------------------|----------------------------|------|---------------------------|-----------------------------|---|
| Number of Contacts       | 2                          | 3    | 3                         | 9                           | 3+9   |
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) |      | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |
| Panel Thickness          | Max. 5.0mm                 |      |                           |                             |   |
| Environmental Protection | IP67(Mated)                |      |                           |                             |   |
| Mechanical Life          | 500 mating cycles          |      |                           |                             |   |
| Operating Temperature    | - 45°C - 105°C             |      |                           |                             |   |
| Voltage Rating           | 300V                       | 300V | 300V                      | 125V                        | 300V  |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                       | 5A                          | 20A+5A  |

# LARGE SERIES

## Large Series Specifications

### Large Series, Male Connector & Female Pin

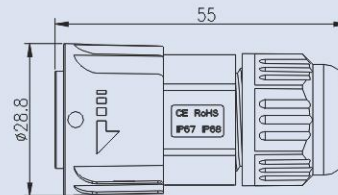
#### Description

Field Installable, 180°  
Push Lock Type, Solder







#### Figure



#### Drawing



#### Part-No.

| Contacts | Cable Range(mm) | Part Number   |
|----------|-----------------|---|
| 2        | 5.5 - 6.5       | 24002231-01  |
|          | 8.0 - 10.5      | 24002231-02  |
| 3(20A)   | 5.5 - 6.5       | 24003231-01  |
|          | 8.0 - 10.5      | 24003231-02  |
| 3(50A)   | 5.5 - 6.5       | 24003231-03   |
|          | 8.0 - 10.5      | 24003231-04   |
| 9        | 5.5 - 6.5       | 24009231-01   |
|          | 8.0 - 10.5      | 24009231-02   |
| 18       | 5.5 - 6.5       | 24018231-01   |
|          | 8.0 - 10.5      | 24018231-02   |
| 24       | 5.5 - 6.5       | 24024231-01   |
|          | 8.0 - 10.5      | 24024231-02   |
| 3+9(FM)  | 5.5 - 6.5       | 24309231-01  |
|          | 8.0 - 10.5      | 24309231-02  |
| 3+11(FM) | 5.5 - 6.5       | 24311231-01   |
|          | 8.0 - 10.5      | 24311231-02   |

#### Specifications

| Number of Contacts       | 2                          | 3                          | 3                           | 9    | 18                         | 24   | 3+9  | 3+11   |
|--------------------------|----------------------------|----------------------------|-----------------------------|------|----------------------------|------|--|--------|
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) | 2.5mm <sup>2</sup> (14AWG) | 0.75mm <sup>2</sup> (18AWG) |      | 0.3mm <sup>2</sup> (22AWG) |      | 1.5mm <sup>2</sup> +0.2mm <sup>2</sup> (16AWG+24AWG) |        |
| Cable Range              | 5.5 - 6.5, 8.0 - 10.5mm    |                            |                             |      |                            |      |  |        |
| Environmental Protection | IP67 (Mated)               |                            |                             |      |                            |      |  |        |
| Mechanical Life          | 500 mating cycles          |                            |                             |      |                            |      |  |        |
| Operating Temperature    | - 45°C - 105°C             |                            |                             |      |                            |      |  |        |
| Voltage Rating           | 300V                       | 300V                       | 300V                        | 125V | 125V                       | 125V | 300V   | 300V   |
| Rated Current (40°C)     | 20A                        | 20A                        | 50A                         | 5A   | 5A                         | 5A   | 20A+5A   | 20A+5A |

# LARGE SERIES

## Large Series Specifications

### Large Series, Male Connector & Female Pin

|             |  |
|-------------|--|
| Description | Molded with Cable, 180° Push Lock Type, Solder |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

| Part-No. | Contacts | Cable Range(mm) | Part Number     |
|----------|----------|-----------------|-----------------|
|          | 2        | Max. 13.0mm     | 24002233-01-XXX |
|          | 3(20A)   | Max. 13.0mm     | 24003233-01-XXX |
|          | 3(50A)   | Max. 13.0mm     | 24003233-02-XXX |
|          | 9        | Max. 13.0mm     | 24009233-01-XXX |
|          | 18       | Max. 13.0mm     | 24018233-01-XXX |
|          | 24       | Max. 13.0mm     | 24024233-01-XXX |
|          | 3+9(FM)  | Max. 13.0mm     | 24309233-01-XXX |
|          | 3+11(FM) | Max. 13.0mm     | 24311233-01-XXX |
|          | 2+18(FM) | Max. 13.0mm     | 24218233-01-XXX |

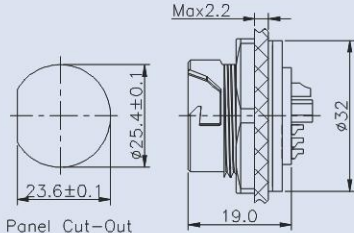
| Specifications           |                            |      |                           |                             |                            |      |  |        |        |
|--------------------------|----------------------------|------|---------------------------|-----------------------------|----------------------------|------|--|--------|--------|
| Number of Contacts       | 2                          | 3    | 3                         | 9                           | 18                         | 24   | 3+9  | 3+11   | 2+18   |
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) |      | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) |      | 2.5mm <sup>2</sup> +0.2mm <sup>2</sup> (12AWG+24AWG) |        |        |
| Cable Range              | 4.5mm - 13.0mm             |      |                           |                             |                            |      |  |        |        |
| Environmental Protection | IP67 (Mated)               |      |                           |                             |                            |      |  |        |        |
| Mechanical Life          | 500 mating cycles          |      |                           |                             |                            |      |  |        |        |
| Operating Temperature    | - 40°C - 80°C              |      |                           |                             |                            |      |  |        |        |
| Voltage Rating           | 300V                       | 300V | 300V                      | 125V                        | 125V                       | 125V | 300V   | 300V   | 300V   |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                       | 5A                          | 5A                         | 5A   | 20A+5A   | 20A+5A | 20A+5A |




# LARGE SERIES

## Large Series Specifications

### Large Series, Panel Mount & Female Pin

|             |  |
|-------------|--|
| Description | Front Panel Mount<br>Push Lock Type, Solder  |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  <p>Panel Cut-Out</p> |
|---------|--|

| Part-No. | Contacts | Part Number   |
|----------|----------|---|
|          | 2        | 24002635-01  |
|          | 3(20A)   | 24003635-01  |
|          | 3(50A)   | 24003635-02   |
|          | 9        | 24009635-01   |
|          | 18       | 24018635-01   |
|          | 3+9(FM)  | 24309635-01  |
|          | 3+11(FM) | 24311635-01   |
|          | 2+13(FM) | 24213635-01   |
|          | 2+4(F)   | 24204635-01   |
|          | 2+1+5    | 24305635-01   |
|          | 1+1+1    | 24305635-05   |

| Specifications           |                            |                           |                             |                            |   |   |   |   |        |            |            |
|--------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|---|---|---|---|--------|------------|------------|
| Number of Contacts       | 2                          | 3                         | 3                           | 9                          | 18  | 3+9   | 3+11  | 2+13  | 2+4    | 2+1+5      | 1+1+1      |
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 2mm <sup>2</sup> + 0.2mm <sup>2</sup> (14AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |        |            |            |
| Panel Thickness          | Max. 2.2mm                 |                           |                             |                            |   |   |   |   |        |            |            |
| Environmental Protection | IP67 (Mated)               |                           |                             |                            |   |   |   |   |        |            |            |
| Mechanical Life          | 500 mating cycles          |                           |                             |                            |   |   |   |   |        |            |            |
| Operating Temperature    | - 45°C - 105°C             |                           |                             |                            |   |   |   |   |        |            |            |
| Voltage Rating           | 300V                       | 300V                      | 300V                        | 125V                       | 125V  | 300V  | 300V  | 300V  | 300V   | 300V       | 300V       |
| Rated Current (40°C)     | 20A                        | 20A                       | 50A                         | 5A                         | 5A  | 20A+5A  | 20A+5A  | 20A+5A  | 50A+5A | 50A+15A+5A | 50A+15A+5A |

# LARGE SERIES

## Large Series Specifications

### Large Series, Panel Mount & Female Pin

|             |  |
|-------------|--|
| Description | Square Panel Mount<br>Push Lock Type, Solder |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

| Part-No. | Contacts | Part Number |
|----------|----------|-------------|
|          | 2        | 24002636-01 |
|          | 3(20A)   | 24003636-01 |
|          | 3(50A)   | 24003636-02 |
|          | 9        | 24009636-01 |
|          | 3+9(FM)  | 24309636-01 |
|          | 3(50A)   | 24003636-02 |
|          | 9        | 24009636-01 |
|          | 3+9(FM)  | 24309636-01 |

| Specifications           |                            |                           |                             |   |   |   |   |   |
|--------------------------|----------------------------|---------------------------|-----------------------------|---|---|---|---|---|
| Number of Contacts       | 2                          | 3                         | 3                           | 9   | 3+9   | 2+4   | 2+1+5   | 1+1+1   |
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |
| Panel Thickness          | Max. 5.0mm                 |                           |                             |   |   |   |   |   |
| Environmental Protection | IP67 (Mated)               |                           |                             |   |   |   |   |   |
| Mechanical Life          | 500 mating cycles          |                           |                             |   |   |   |   |   |
| Operating Temperature    | - 45°C - 105°C             |                           |                             |   |   |   |   |   |
| Voltage Rating           | 300V                       | 300V                      | 300V                        | 125V  | 300V  | 300V  | 300V  | 300V  |
| Rated Current (40°C)     | 20A                        | 20A                       | 50A                         | 5A  | 20A+5A  | 50A+5A  | 50A+15A+5A  | 50A+15A+5A  |

# LARGE SERIES

## Large Series Specifications

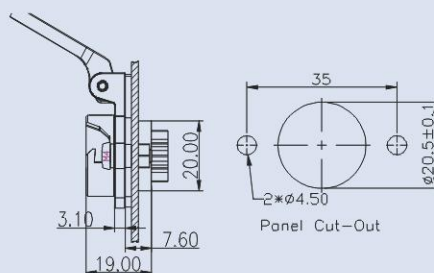
### Large Series, Panel Mount & Female Pin




**Description** Rhombus Panel Mount  
Push Lock Type, Solder

**Figure**



**Drawing**



| Part-No. | Contacts | Part Number   |
|----------|----------|---|
|          | 2        | 24002636-05  |
|          | 3(20A)   | 24003636-03  |
|          | 3(50A)   | 24003636-04   |
|          | 9        | 24009636-02   |
|          | 3+9(FM)  | 24309636-02  |

### Specifications

| Number of Contacts       | 2                          | 3                         | 3                           | 9   | 3+9    |
|--------------------------|----------------------------|---------------------------|-----------------------------|---|--------|
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |        |
| Panel Thickness          | Max. 5.0mm                 |                           |                             |   |        |
| Environmental Protection | IP67 (Mated)               |                           |                             |   |        |
| Mechanical Life          | 500 mating cycles          |                           |                             |   |        |
| Operating Temperature    | - 45°C - 105°C             |                           |                             |   |        |
| Voltage Rating           | 300V                       | 300V                      | 300V                        | 125V  | 300V   |
| Rated Current (40°C)     | 20A                        | 20A                       | 50A                         | 5A  | 20A+5A |

# LARGE SERIES

## Large Series Specifications

### Large Series, Male connector & Male Pin

|             |  |
|-------------|--|
| Description | Field Installable, 180° Push Lock Type, Solder |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

| Part-No. | Contacts | Cable Range(mm) | Part Number |
|----------|----------|-----------------|-------------|
|          | 2        | 5.5 - 6.5       | 24002131-01 |
|          |          | 8.0 - 10.5      | 24002131-02 |
|          | 3(20A)   | 5.5 - 6.5       | 24003131-01 |
|          |          | 8.0 - 10.5      | 24003131-02 |
|          | 3(50A)   | 5.5 - 6.5       | 24003131-03 |
|          |          | 8.0 - 10.5      | 24003131-04 |
|          | 9        | 5.5 - 6.5       | 24009131-01 |
|          |          | 8.0 - 10.5      | 24009131-02 |
|          | 18       | 5.5 - 6.5       | 24018131-01 |
|          |          | 8.0 - 10.5      | 24018131-02 |
|          | 3+9(MF)  | 5.5 - 6.5       | 24309131-01 |
|          |          | 8.0 - 10.5      | 24309131-02 |
|          | 3+11(MF) | 5.5 - 6.5       | 24311131-01 |
|          |          | 8.0 - 10.5      | 24311131-02 |
|          | 2+13(MF) | 8.0 - 10.5      | 24213131-01 |
|          | 2+4(M)   | 8.0 - 10.5      | 24204131-01 |
|          | 2+1+5    | 8.0 - 10.5      | 24305131-01 |
|          | 1+1+1    | 8.0 - 10.5      | 24305131-02 |

| Specifications           |                            |                            |                             |                            |  |   |   |   |   |   |   |
|--------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|--|---|---|---|---|---|---|
| Number of Contacts       | 2                          | 3                          | 3                           | 9                          | 18   | 3+9   | 3+11  | 2+13  | 2+4   | 2+1+5   | 1+1+1   |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) | 2.5mm <sup>2</sup> (14AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) | 1.5mm <sup>2</sup> +0.2mm <sup>2</sup> (16AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |
| Cable Range              | 5.5 - 6.5, 8.0 - 10.5mm    |                            |                             |                            |  |   |   |   |   |   |   |
| Environmental Protection | IP67 (Mated)               |                            |                             |                            |  |   |   |   |   |   |   |
| Mechanical Life          | 500 mating cycles          |                            |                             |                            |  |   |   |   |   |   |   |
| Operating Temperature    | - 45°C - 105°C             |                            |                             |                            |  |   |   |   |   |   |   |
| Voltage Rating           | 300V                       | 300V                       | 300V                        | 125V                       | 125V   | 300V  | 300V  | 300V  | 300V  | 300V  | 300V  |
| Rated Current (40°C)     | 20A                        | 20A                        | 50A                         | 5A                         | 5A   | 20A+5A  | 20A+5A  | 50A+5A  | 50A+15A+5A  | 50A+15A+5A  | 50A+15A+5A  |

# LARGE SERIES

## Large Series Specifications

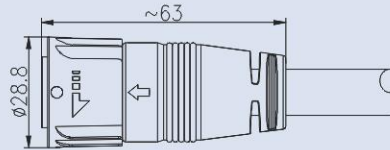
### Large Series, Male connector & Male Pin




**Description** Molded with Cable, 180°  
Push Lock Type, Solder

**Figure**



**Drawing**



| Part-No. | Contacts | Cable Range(mm) | Part Number   |
|----------|----------|-----------------|---|
|          | 2        | Max. 13.0mm     | 24002133-01-XXX  |
|          | 3(20A)   | Max. 13.0mm     | 24003133-01-XXX  |
|          | 3(50A)   | Max. 13.0mm     | 24003133-02-XXX   |
|          | 9        | Max. 13.0mm     | 24009133-01-XXX   |
|          | 18       | Max. 13.0mm     | 24018133-01-XXX   |
|          | 3+9(MF)  | Max. 13.0mm     | 24309133-01-XXX  |
|          | 3+11(MF) | Max. 13.0mm     | 24311133-01-XXX   |
|          | 2+13(MF) | Max. 13.0mm     | 24213133-01-XXX   |
|          | 2+4      | Max. 13.0mm     | 24204133-01-001   |
|          | 2+1+5    | Max. 13.0mm     | 24305133-01-001   |
|          | 1+1+1    | Max. 13.0mm     | 24305133-02-001   |

### Specifications

| Number of Contacts       | 2                          | 3                         | 3                           | 9                          | 18  | 3+9   | 3+11  | 2+13  | 2+4    | 2+1+5      | 1+1+1      |
|--------------------------|----------------------------|---------------------------|-----------------------------|----------------------------|---|---|---|---|--------|------------|------------|
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) | 6mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |        |            |            |
| Cable Range              | 4.5mm - 13.0mm             |                           |                             |                            |   |   |   |   |        |            |            |
| Environmental Protection | IP67 (Mated)               |                           |                             |                            |   |   |   |   |        |            |            |
| Mechanical Life          | 500 mating cycles          |                           |                             |                            |   |   |   |   |        |            |            |
| Operating Temperature    | - 40°C - 80°C              |                           |                             |                            |   |   |   |   |        |            |            |
| Voltage Rating           | 300V                       | 300V                      | 300V                        | 125V                       | 125V  | 300V  | 300V  | 300V  | 300V   | 300V       | 300V       |
| Rated Current (40°C)     | 20A                        | 20A                       | 50A                         | 5A                         | 5A  | 20A+5A  | 20A+5A  | 50A+5A  | 50A+5A | 50A+15A+5A | 50A+15A+5A |

# LARGE SERIES

## Large Series Specifications

### Large Series, Female Connector & Male Pin

|             |  |
|-------------|--|
| Description | Field Installable, 180° Push Lock Type, Solder |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

| Part-No. | Contacts | Cable Range(mm) | Part Number |
|----------|----------|-----------------|-------------|
|          | 2        | 5.5 - 6.5       | 24002331-01 |
|          |          | 8.0 - 10.5      | 24002331-02 |
|          | 3(20A)   | 5.5 - 6.5       | 24003331-01 |
|          |          | 8.0 - 10.5      | 24003331-02 |
|          | 3(50A)   | 5.5 - 6.5       | 24003331-03 |
|          |          | 8.0 - 10.5      | 24003331-04 |
|          | 9        | 5.5 - 6.5       | 24009331-01 |
|          |          | 8.0 - 10.5      | 24009331-02 |
|          | 18       | 5.5 - 6.5       | 24018331-01 |
|          |          | 8.0 - 10.5      | 24018331-02 |
|          | 3+9(MF)  | 5.5 - 6.5       | 24309331-01 |
|          |          | 8.0 - 10.5      | 24309331-02 |
|          | 3+11(MF) | 5.5 - 6.5       | 24311331-01 |
|          |          | 8.0 - 10.5      | 24311331-02 |
|          | 24       | 8.0 - 10.5      | 24024331-02 |

| Specifications           |                            |      |                            |                             |                            |      |  |      |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|----------------------------|------|--|------|
| Number of Contacts       | 2                          | 3    | 3                          | 9                           | 18                         | 24   | 3+9  | 3+11 |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 2.5mm <sup>2</sup> (14AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) |      | 1.5mm <sup>2</sup> +0.2mm <sup>2</sup> (16AWG+24AWG) |      |
| Cable Range              | 5.5 - 6.5, 8.0 - 10.5mm    |      |                            |                             |                            |      |  |      |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |                            |      |  |      |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |                            |      |  |      |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |                            |      |  |      |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V                       | 125V | 300V   |      |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                        | 5A                          | 5A                         | 5A   | 20A+5A   |      |

# LARGE SERIES

## Large Series Specifications

### Large Series, Female Connector & Male Pin

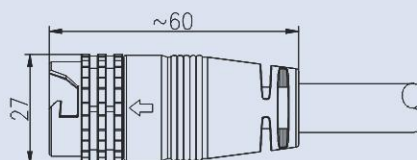
#### Description

Molded with Cable, 180°  
Push Lock Type, Solder




#### Figure



#### Drawing



#### Part-No.

| Contacts | Cable Range(mm) | Part Number   |
|----------|-----------------|---|
| 2        | Max. 13.0mm     | 24002333-01-XXX  |
| 3(20A)   | Max. 13.0mm     | 24003333-01-XXX  |
| 3(50A)   | Max. 13.0mm     | 24003333-02-XXX   |
| 9        | Max. 13.0mm     | 24009333-01-XXX   |
| 18       | Max. 13.0mm     | 24018333-01-XXX   |
| 3+9(MF)  | Max. 13.0mm     | 24309333-01-XXX  |
| 3+11(MF) | Max. 13.0mm     | 24311333-01-XXX   |
| 24       | Max. 13.0mm     | 24024333-01-XXX   |
| 2+18(MF) | Max. 13.0mm     | 24218333-01-XXX   |

#### Specifications

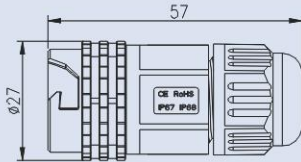
| Number of Contacts       | 2                          | 3    | 3                         | 9                           | 18                         | 24   | 3+9   | 3+11 | 2+18 |
|--------------------------|----------------------------|------|---------------------------|-----------------------------|----------------------------|------|---|------|------|
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) |      | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) |      | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |      |      |
| Cable Range              | 4.5mm - 13.0mm             |      |                           |                             |                            |      |   |      |      |
| Environmental Protection | IP67 (Mated)               |      |                           |                             |                            |      |   |      |      |
| Mechanical Life          | 500 mating cycles          |      |                           |                             |                            |      |   |      |      |
| Operating Temperature    | - 40°C - 80°C              |      |                           |                             |                            |      |   |      |      |
| Voltage Rating           | 300V                       | 300V | 300V                      | 125V                        | 125V                       | 125V | 300V  |      |      |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                       | 5A                          | 5A                         | 5A   | 20A+5A  |      |      |







# LARGE SERIES

## Large Series Specifications

### Large Series, Female connector & Female Pin

|             |   |
|-------------|---|
| Description | Field Installable, 180°<br>Push Lock Type, Solder                                 |
| Figure      |  |

|         |  |
|---------|--|
| Drawing |  |
|---------|--|

| Part-No. | Contacts | Cable Range(mm) | Part Number   |
|----------|----------|-----------------|---|
|          | 2        | 5.5 - 6.5       | 24002431-01   |
|          |          | 8.0 - 10.5      | 24002431-02  |
|          | 3(20A)   | 5.5 - 6.5       | 24003431-01  |
|          |          | 8.0 - 10.5      | 24003431-02  |
|          | 3(50A)   | 5.5 - 6.5       | 24003431-03   |
|          |          | 8.0 - 10.5      | 24003431-04   |
|          | 9        | 5.5 - 6.5       | 24009431-01   |
|          |          | 8.0 - 10.5      | 24009431-02   |
|          | 18       | 5.5 - 6.5       | 24018431-01   |
|          |          | 8.0 - 10.5      | 24018431-02   |
|          | 3+9(FM)  | 5.5 - 6.5       | 24309431-01  |
|          |          | 8.0 - 10.5      | 24309431-02  |
|          | 3+11(FM) | 5.5 - 6.5       | 24311431-01   |
|          |          | 8.0 - 10.5      | 24311431-02   |
|          | 2+13(FM) | 8.0 - 10.5      | 24213431-01   |

| Specifications           |                            |      |                            |                             |                            |  |        |      |
|--------------------------|----------------------------|------|----------------------------|-----------------------------|----------------------------|--|--------|------|
| Number of Contacts       | 2                          | 3    | 3                          | 9                           | 18                         | 3+9  | 3+11   | 2+13 |
| Wire Gauge               | 2.5mm <sup>2</sup> (14AWG) |      | 2.5mm <sup>2</sup> (14AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) | 1.5mm <sup>2</sup> +0.2mm <sup>2</sup> (16AWG+24AWG) |        |      |
| Cable Range              | 5.5 - 6.5, 8.0 - 10.5mm    |      |                            |                             |                            |  |        |      |
| Environmental Protection | IP67 (Mated)               |      |                            |                             |                            |  |        |      |
| Mechanical Life          | 500 mating cycles          |      |                            |                             |                            |  |        |      |
| Operating Temperature    | - 45°C - 105°C             |      |                            |                             |                            |  |        |      |
| Voltage Rating           | 300V                       | 300V | 300V                       | 125V                        | 125V                       | 300V   | 300V   |      |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                        | 5A                          | 5A                         | 20A+5A   | 20A+5A |      |

# LARGE SERIES

## Large Series Specifications

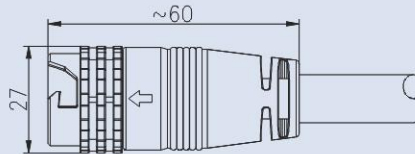
### Large Series, Female connector & Female Pin




**Description** Molded with Cable, 180°  
Push Lock Type, Solder

**Figure**



**Drawing**



| Part-No. | Contacts | Cable Range(mm) | Part Number   |
|----------|----------|-----------------|---|
|          | 2        | Max. 13.0mm     | 24002433-01-XXX  |
|          | 3(20A)   | Max. 13.0mm     | 24003433-01-XXX  |
|          | 3(50A)   | Max. 13.0mm     | 24003433-02-XXX   |
|          | 9        | Max. 13.0mm     | 24009433-01-XXX   |
|          | 18       | Max. 13.0mm     | 24018433-01-XXX   |
|          | 3+9(FM)  | Max. 13.0mm     | 24309433-01-XXX  |
|          | 3+11(FM) | Max. 13.0mm     | 24311433-01-XXX   |
|          | 2+13(FM) | Max. 13.0mm     | 24213433-01-XXX   |

### Specifications

| Number of Contacts       | 2                          | 3    | 3                         | 9                           | 18                         | 3+9   | 3+11   | 2+13 |
|--------------------------|----------------------------|------|---------------------------|-----------------------------|----------------------------|---|--------|------|
| Wire Gauge               | 4.0mm <sup>2</sup> (12AWG) |      | 8.4mm <sup>2</sup> (8AWG) | 0.75mm <sup>2</sup> (18AWG) | 0.3mm <sup>2</sup> (22AWG) | 2.5mm <sup>2</sup> + 0.2mm <sup>2</sup> (12AWG+24AWG) |        |      |
| Cable Range              | 4.5mm - 13.0mm             |      |                           |                             |                            |   |        |      |
| Environmental Protection | IP67 (Mated)               |      |                           |                             |                            |   |        |      |
| Mechanical Life          | 500 mating cycles          |      |                           |                             |                            |   |        |      |
| Operating Temperature    | - 40°C - 80°C              |      |                           |                             |                            |   |        |      |
| Voltage Rating           | 300V                       | 300V | 300V                      | 125V                        | 125V                       | 300V  | 300V   |      |
| Rated Current (40°C)     | 20A                        | 20A  | 50A                       | 5A                          | 5A                         | 20A+5A  | 20A+5A |      |