

## M12-Round-Plug Connector, Single-Ended Cordsets, According to IEC 61076-2-101

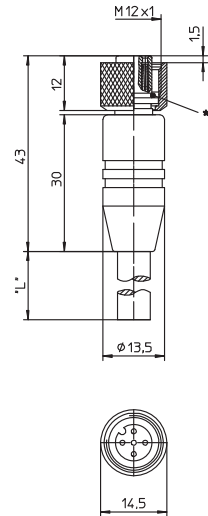
### RKTS | RKWTH



### 4-, 5-, and 8-Poles (Shielded)

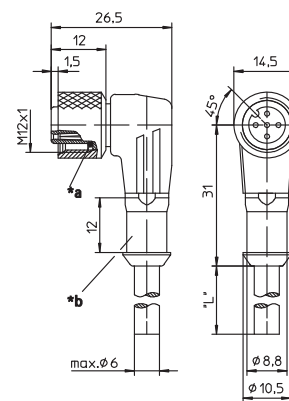
Actuator/sensor cordset, single-ended, M12, 4-, 5-, and 8-poles, female straight connector, internal threads with threaded joint and molded cable, shielding connecting to knurled nut.

### RKTS



Actuator/sensor cordset, single-ended, M12, 4-, 5-, and 8-poles, female 90 °connector, internal threads with threaded joint and molded cable, shielding connecting to knurled nut.

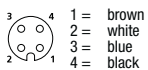
### RKWTH



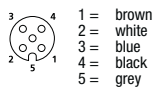
## Pin Assignments

### M12 - Male

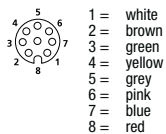
#### 4 poles



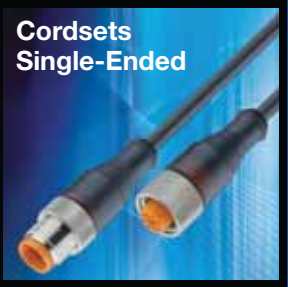
#### 5 poles



#### 8 poles



## Be Certain with Belden



## M12-Round-Plug Connector, Single-Ended Cordsets, According to IEC 61076-2-101

RKTS | RKWTH

### Technical Data

#### Environmental

|                             |                                |
|-----------------------------|--------------------------------|
| Degree of protection        | IP 67 / NEMA 6P                |
| Operating temperature range | -25°C (-13°F) / +80°C (+176°F) |

#### Mechanical

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Housing / Molded body | TPU                                                 |
| Insert                | TPU                                                 |
| Contact               | CuSn, pre-nickel-coated and 0.8 microns gold-plated |
| Coupling nut          | CuZn, nickel-plated                                 |
| Shield sleeve         | CuZn, nickel-plated                                 |
| O-ring                | FKM                                                 |

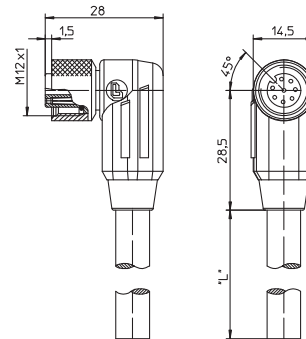
#### Electrical

|                         |                                                              |
|-------------------------|--------------------------------------------------------------|
| Contact resistance      | ≤ 5 mΩ                                                       |
| Nominal current at 40°C | 4 A                                                          |
| Nominal voltage         | 4 poles 240 V<br>5 poles 60 V<br>8 poles 30 V                |
| Rated voltage           | 3-4 poles 250 V<br>5 poles 63 V<br>8 poles 36 V              |
| Test voltage            | 3-4 poles 2.0 kV eff. / 60 s<br>5-8 poles 1.5 kV eff. / 60 s |
| Insulation resistance   | > 10 <sup>9</sup> Ω                                          |

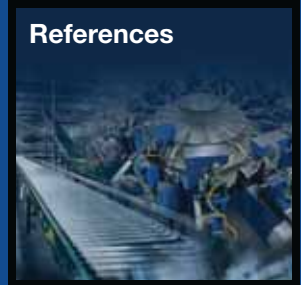
### Cable Specifications

| Cable No. | Outer Jacket                | Conductor Size           | Jacket Color | OD             |
|-----------|-----------------------------|--------------------------|--------------|----------------|
| 182       | PVC, shielded               | 4 x 0.34 mm <sup>2</sup> | Orange       | .217" (5.5 mm) |
| 183       | PVC, shielded               | 5 x 0.34 mm <sup>2</sup> | Orange       | .236" (6.0 mm) |
| 184       | PVC, shielded               | 8 x 0.25 mm <sup>2</sup> | Orange       | .260" (6.6 mm) |
| 288       | PUR, halogen-free, shielded | 4 x 0.34 mm <sup>2</sup> | Black        | .217" (5.5 mm) |
| 298       | PUR, halogen-free, shielded | 5 x 0.34 mm <sup>2</sup> | Black        | .236" (6.0 mm) |
| 299       | PUR, halogen-free, shielded | 8 x 0.25 mm <sup>2</sup> | Black        | .260" (6.6 mm) |

### RKWTH (8-pole version)



| Part Number            | Pins              | Outer Jacket | Standard Cable Lengths | Characteristics  |
|------------------------|-------------------|--------------|------------------------|------------------|
| <b>Female Straight</b> | <b>Female 90°</b> |              |                        |                  |
| RKTS 4-182/...M        | RKWTH 4-182/...M  | 4            | PVC                    | 2 M / 5 M / 10 M |
| RKTS 4-288/...M        | RKWTH 4-288/...M  |              | PUR, halogen-free      | 2 M / 5 M / 10 M |
| RKTS 5-183/...M        |                   | 5            | PVC                    | 2 M / 5 M / 10 M |
| RKTS 5-298/...M        | RKWTH 5-298/...M  |              | PUR, halogen-free      | 2 M / 5 M / 10 M |
| RKTS 8-184/...M        |                   | 8            | PVC                    | 2 M / 5 M / 10 M |
| RKTS 8-299/...M        | RKWTH 8-299/...M  |              | PUR, halogen-free      | 2 M / 5 M / 10 M |



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