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

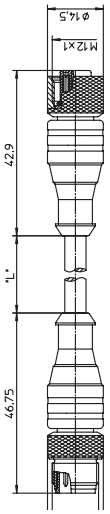
**RST -RKT I RST-RKWT**

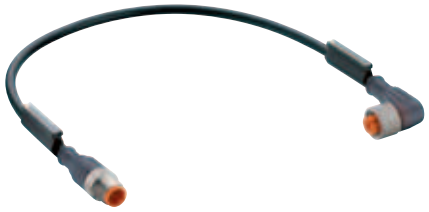
## 3-, 4-, 5-, and 8-Poles



Actuator/sensor cordset, double-ended, M12, 3-, 4-, 5-, and 8-poles, male straight to female straight connector with self-locking thread and molded cable, IEC color code.

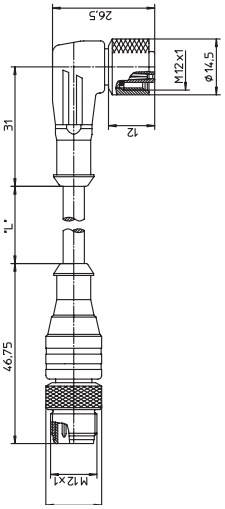
**RST-RKT**



Actuator/sensor cordset, double-ended, M12, 3-, 4-, 5-, and 8-poles, male straight to female 90° connector with self-locking thread and molded cable, IEC color code.

**RST-RKWT**




## Pin Assignments

**M12 - Male**

### 3 poles



1 = brown
2 = n.c.
3 = blue
4 = black

### 4 poles



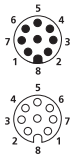
1 = brown
2 = white
3 = blue
4 = black

### 5 poles



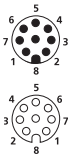
1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

### 6 poles



1 = white
2 = green
3 = yellow
4 = grey
5 = brown
6 = n.c.
7 = blue
8 = n.c.

### 8 poles



1 = white
2 = brown
3 = green
4 = yellow
5 = grey
6 = pink
7 = blue
8 = shield




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

RST-RKT | RST-RKWT

### 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 | RST: CuSn, pre-nickeled and 0.8 microns gold-plated<br>RKT / RKWT: CuSn, pre-nickeled and 0.3 microns gold-plated |
| Coupling nut | CuZn, nickel-plated |
| O-ring | FKM (only RKT / RKWT) |

**Electrical**

| | |
|---|---|
| Contact resistance | ≤ 5 mΩ |
| Nominal current at 40°C | 3–5 poles 4 A<br>6-8 poles 2 A |
| Nominal voltage | 3–4 poles 240 V<br>5 poles 60 V, 6-8 poles 30 V |
| Rated voltage | 3–4 poles 250 V<br>5 poles 63 V, 6-8 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 | > $10^9$ Ω |
| Pollution degree | 3 |

**Cable Specifications**

| Cable No. | Outer Jacket | Conductor Size | Jacket Color | OD |
|---|---|---|---|---|
| **224** | **PUR**, halogen-free | **3** x 0.34 mm² | Black | .169" (4.3 mm) |
| **225** | **PUR**, halogen-free | **4** x 0.34 mm² | Black | .185" (4.7 mm) |
| **228** | **PUR**, halogen-free | **5** x 0.50 mm² | Black | .213" (5.4 mm) |
| **251** | **PUR**, halogen-free welding spark proof | **4** x 0.34 mm² | Orange | .185" (4.7 mm) |
| **259** | **PUR**, halogen-free welding spark proof | **5** x 0.50 mm² | Orange | .217" (5.5 mm) |
| **268** | **PUR**, halogen-free welding spark proof | **6** x 0.34 mm² | Orange | .236" (6.0 mm) |
| **282** | **PUR**, halogen-free | **7** x 0.25 mm² | Black | .236" (6.0 mm) |
| **337** | **PUR**, halogen-free | **6** x 0.34 mm² | Black | .236" (6.0 mm) |



| Part Number | | Pins | Outer Jacket | Standard Cable Lengths | Characteristics |
|---|---|---|---|---|---|
| RST 3-RKT 4-3-224/...M | RST 3-RKWT 4-3-224/...M | **3** | PUR, halogen-free | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |
| RST 4-RKT 4-225/...M | RST 4-RKWT 4-225/...M | **4** | PUR, halogen-free | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |
| RST 4-RKT 4-251/...M | | | PUR, halogen-free, weld spark proof | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |
| RST 5-RKT 5-228/...M | | **5** | PUR, halogen-free | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |
| RST 5-RKT 5-259/...M | | | PUR, halogen-free, weld spark proof | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |
| RST 8-RKT 8-6-268/...M | RST 8-RKWT 8-6-268/...M | **6** | PUR, halogen-free, weld spark proof | 2 M / 5 M / 10 M | |
| RST 8-RKT 8-6-337/...M | RST 8-RKWT 8-6-337/...M | | PUR, halogen-free | 2 M / 5 M / 10 M | |
| RST 8-RKT 8-282/...M | RST 8-RKWT 8-282/...M | **8** | PUR, halogen-free | 0.3 M / 0.6 M / 1 M / 1.5 M / 2 M / 5 M | |