lumbergautomation
A BELDEN BRAND

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

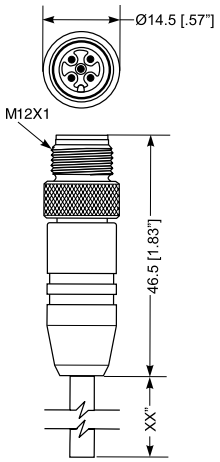
**RST**

RST 8-627

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

Actuator/sensor cordset, single-ended, M12, 3-, 4-, 5-, and 8-poles, male straight connector with self-locking thread and molded cable.

**RST**




## Pin Assignments

**M12 - Male**

**3 poles**

1 = brown
3 = blue
4 = black

**4 poles**

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

**5 poles (794)**

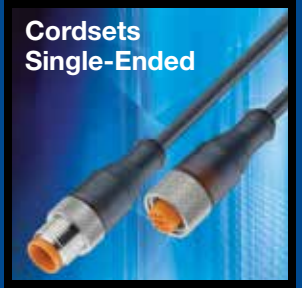
1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

**5 poles (all others)**

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

**8 poles**

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






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

RST

### Technical Data

**Environmental**

| | |
|---|---|
| Degree of protection | IP 67 / NEMA 6P |
| Operating temperature range | PUR: -40°C (-40°F) / +80°C (176°F)<br>PVC: -40°C (-40°F) / +90°C (194°F)<br>TPE: -40°C (-40°F) / +90°C (194°F) |

**Mechanical**

| | |
|---|---|
| Housing / Molded body | PUR, yellow<br>RST 8-627: PUR, black |
| Insert | PUR, Yellow<br>RST 8-627/727: PUR, orange |
| Contacts | CuSn, gold over nickel-plated |
| Coupling nut | CuZn, nickel-plated |

**Electrical**

| | |
|---|---|
| Current rating | 4 A |
| RST 8-XXX: | 1.5A |
| Voltage rating | 250 V<br>5-Pole: 60V<br>8-Pole: 30 V AC /36 V DC |

### Cable Specifications

| Cable No. | Outer Jacket | Gauge | Jacket Color | OD |
|---|---|---|---|---|
| **602** | **PUR** | **18**AWG | Yellow | .230" (5.8 mm) |
| Continuous flex rating and suitable for general C-track usage. 1 million cycles at minimum bend radius 10X cable diameter. | | | | |
| **610** | **PUR** | **22**AWG | Yellow | .190" (4.8 mm) |
| **612** | **PVC** | **22**AWG | Yellow | .210" (5.3 mm) |
| **627** | **PVC** | **24**AWG | Black | .232" (5.9 mm) |
| **632** | **PVC** | **22**AWG | Yellow | .190" (4.8 mm) |
| **633** | **PVC** | **22**AWG | Yellow | .190" (4.8 mm) |
| **637** | **TPE/PLTC** | **18**AWG | Yellow | .280" (7.1 mm) |
| **643** | **TPE/PLTC** | **22**AWG | Yellow | .246" (6.2 mm) |
| **644** | **PUR** | **22**AWG | Yellow | .210" (5.3 mm) |
| **645** | **PUR** | **18**AWG | Yellow | .220" (5.6 mm) |
| **679** | **PUR** | **22**AWG | Yellow | .190" (4.8 mm) |
| **713** | **TPE/PLTC** | **22**AWG | Yellow | .280" (7.1 mm) |
| **727** | **TPE/PLTC** | **22**AWG | Yellow | .335" (8.5 mm) |
| **731** | **TPE/PLTC** | **18**AWG | Yellow | .261" (6.6 mm) |
| **794** | **TPE/PLTC** | **18**AWG | Yellow | .304" (7.7 mm) |

| Part Number | Pins | Outer Jacket | Standard Cable Lengths | Characteristics |
|---|---|---|---|---|
| RST 3-731/...M | **3** | TPE/PLTC | 2 M / 5 M / 10 M | |
| RST 3-632/...M | | PVC | 2 M / 5 M / 10 M | |
| RST 3-645/...M | | PUR | 2 M / 5 M / 10 M | |
| RST 3-610/...M | | PUR | 2 M / 5 M / 10 M | |
| RST 4-637/...M | **4** | TPE/PLTC | 2 M / 5 M / 10 M | |
| RST 4-633/...M | | PVC | 2 M / 5 M / 10 M | |
| RST 4-643/...M | | TPE/PLTC | 2 M / 5 M / 10 M | |
| RST 4-602/...M | | PUR | 2 M / 5 M / 10 M | |
| RST 4-679/...M | | PUR | 2 M / 5 M / 10 M | |
| RST 5-612/...M | **5** | PVC | 2 M / 5 M / 10 M | |
| RST 5-644/...M | | PUR | 2 M / 5 M / 10 M | |
| RST 5-713/...M | | TPE/PLTC | 2 M / 5 M / 10 M | |
| RST 5-794/...M | | TPE/PLTC | 2 M / 5 M / 10 M | |
| RST 8-627/...M | **8** | PVC | 2 M / 5 M / 10 M | |
| RST 8-727/...M | | TPE/PLTC | 2 M / 5 M / 10 M | |