

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

RKT | RKWT



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

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

— RKT 8-627 has black cable and overmold —

RKT



Actuator/sensor cordset, single-ended, M12, 3-, 4-, 5-, and 8-poles, female 90° connector with self-locking thread and molded cable.

— RKWT 8-627 has black cable and overmold —

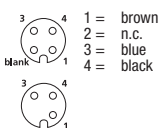
RKWT



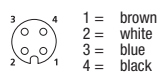
## Pin Assignments

### M12 - Female

#### 3 poles



#### 4 poles



#### 5 poles (794)



#### 5 poles (all others)



#### 8 poles



# Be Certain with Belden

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### Technical Data

#### Environmental

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

#### Mechanical

Housing / Molded body PUR, yellow  
 RKT/RKWT 8-627: PUR, black  
 Insert PUR, Yellow  
 RKT/RKWT 8-627/727: PUR, orange  
 Contacts CuSn, gold over nickel-plated  
 Coupling nut CuZn, nickel-plated  
 O-ring FKM or Viton

#### Electrical

Current rating 4 A  
 RKT/RKWT 8-XXX: 1.5A

#### Voltage rating

RKT/RKWT 8-XXX: 250 V  
 30 V AC /36 V DC

### Cable Specifications

| Cable No.  | Outer Jacket    | Gauge | Jacket Color | OD             |
|--|-----------------|-------|--------------|----------------|
| <b>602</b>   | <b>PUR</b>      | 18AWG | 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. |                 |       |              |                |
| <b>610</b>   | <b>PUR</b>      | 22AWG | Yellow       | .190" (4.8 mm) |
| <b>612</b>   | <b>PVC</b>      | 22AWG | Yellow       | .210" (5.3 mm) |
| <b>627</b>   | <b>PVC</b>      | 24AWG | Black        | .232" (5.9 mm) |
| <b>632</b>   | <b>PVC</b>      | 22AWG | Yellow       | .190" (4.8 mm) |
| <b>633</b>   | <b>PVC</b>      | 22AWG | Yellow       | .190" (4.8 mm) |
| <b>637</b>   | <b>TPE/PLTC</b> | 18AWG | Yellow       | .280" (7.1 mm) |
| <b>643</b>   | <b>TPE/PLTC</b> | 22AWG | Yellow       | .246" (6.2 mm) |
| <b>644</b>   | <b>PUR</b>      | 22AWG | Yellow       | .210" (5.3 mm) |
| <b>645</b>   | <b>PUR</b>      | 18AWG | Yellow       | .220" (5.6 mm) |
| <b>679</b>   | <b>PUR</b>      | 22AWG | Yellow       | .190" (4.8 mm) |
| <b>713</b>   | <b>TPE/PLTC</b> | 22AWG | Yellow       | .280" (7.1 mm) |
| <b>727</b>   | <b>TPE/PLTC</b> | 22AWG | Yellow       | .335" (8.5 mm) |
| <b>731</b>   | <b>TPE/PLTC</b> | 18AWG | Yellow       | .261" (6.6 mm) |
| <b>794</b>   | <b>TPE/PLTC</b> | 18AWG | Yellow       | .304" (7.7 mm) |

| Part Number                           | Pins | Outer Jacket | Standard Cable Lengths | Characteristics |
|---------------------------------------|------|--------------|------------------------|-----------------|
| RKT 4-3-731/...M<br>RKWT 4-3-731/...M | 3    | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-3-632/...M<br>RKWT 4-3-632/...M |      | PVC          | 2M / 5M / 10M          |                 |
| RKT 4-3-645/...M<br>RKWT 4-3-645/...M |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 4-3-610/...M<br>RKWT 4-3-610/...M |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 4-637/...M<br>RKWT 4-637/...M     | 4    | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-633/...M<br>RKWT 4-633/...M     |      | PVC          | 2M / 5M / 10M          |                 |
| RKT 4-643/...M<br>RKWT 4-643/...M     |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-602/...M<br>RKWT 4-602/...M     |      | PUR          | 1M / 2M / 5M / 10M     |                 |
| RKT 4-679/...M<br>RKWT 4-679/...M     |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 5-612/...M<br>RKWT 5-612/...M     | 5    | PVC          | 2M / 5M / 10M          |                 |
| RKT 5-644/...M<br>RKWT 5-644/...M     |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 5-713/...M<br>RKWT 5-713/...M     |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 5-794/...M<br>RKWT 5-794/...M     |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 8-627/...M<br>RKWT 8-627/...M     | 8    | PVC          | 2M / 5M / 10M          |                 |
| RKT 8-727/...M<br>RKWT 8-727/...M     |      | TPE/PLTC     | 2M / 5M / 10M          |                 |