

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

### RKT | RKWT

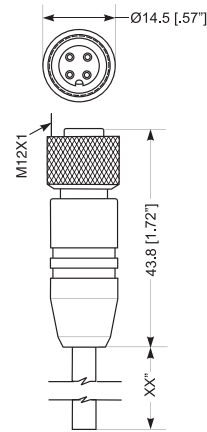


### 3-, 4-, 5-, and 8-Poles

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 —

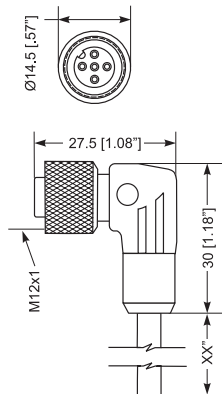
### RKT



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 —

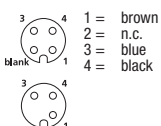
### RKWT



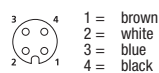
## Pin Assignments

### M12 - Female

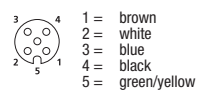
#### 3 poles



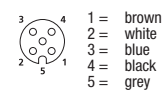
#### 4 poles



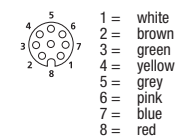
#### 5 poles (794)



#### 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)<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>RKT/RKWT 8-627: PUR, black      |
| Insert                | PUR, Yellow<br>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

|                 |                  |
|-----------------|------------------|
|                 | 250 V            |
| RKT/RKWT 8-XXX: | 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 | RKWT 4-3-731/...M | 3    | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-3-632/...M | RKWT 4-3-632/...M |      | PVC          | 2M / 5M / 10M          |                 |
| RKT 4-3-645/...M | RKWT 4-3-645/...M |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 4-3-610/...M | RKWT 4-3-610/...M |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 4-637/...M   | RKWT 4-637/...M   | 4    | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-633/...M   | RKWT 4-633/...M   |      | PVC          | 2M / 5M / 10M          |                 |
| RKT 4-643/...M   | RKWT 4-643/...M   |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 4-602/...M   | RKWT 4-602/...M   |      | PUR          | 1M / 2M / 5M / 10M     |                 |
| RKT 4-679/...M   | RKWT 4-679/...M   |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 5-612/...M   | RKWT 5-612/...M   | 5    | PVC          | 2M / 5M / 10M          |                 |
| RKT 5-644/...M   | RKWT 5-644/...M   |      | PUR          | 2M / 5M / 10M          |                 |
| RKT 5-713/...M   | RKWT 5-713/...M   |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 5-794/...M   | RKWT 5-794/...M   |      | TPE/PLTC     | 2M / 5M / 10M          |                 |
| RKT 8-627/...M   | RKWT 8-627/...M   | 8    | PVC          | 2M / 5M / 10M          |                 |
| RKT 8-727/...M   | RKWT 8-727/...M   |      | TPE/PLTC     | 2M / 5M / 10M          |                 |