

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

RKT | RKWT

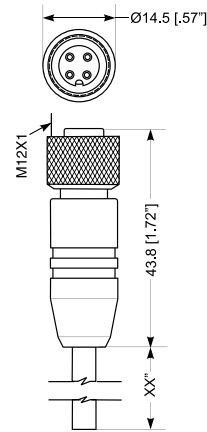


### 3-, 4-, 5-, and 8-Poles

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

– RST 8-627 has black cable and overmold –

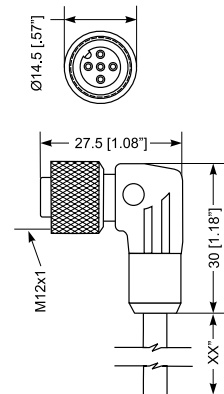
RKT



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 –

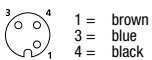
RKWT



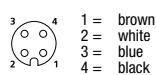
### Pin Assignments

#### M12 - Male

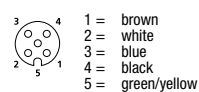
##### 3 poles



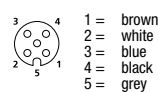
##### 4 poles



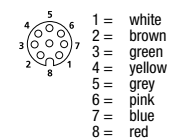
##### 5 poles (794)



##### 5 poles (all others)



##### 8 poles





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### Technical Data

#### Environmental

Degree of protection  
Operating temperature range

IP 67 / NEMA 6P  
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

250 V  
5-Pole: 60V  
8-Pole: 30 V AC /36 V DC

### Cable Specifications

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

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