

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

RKT | RKWT

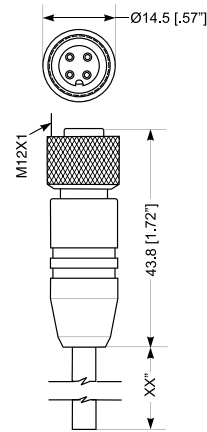


3-, 4-, 5-, and 8-Poles

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 –

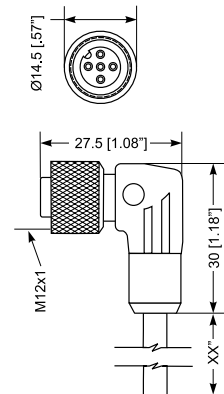
RKT



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 –

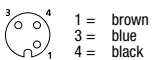
RKWT



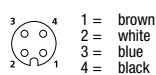
Pin Assignments

M12 - Male

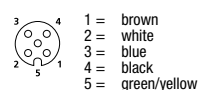
3 poles



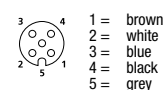
4 poles



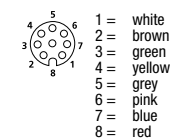
5 poles (794)



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 |
|--|-----------------|--------------|--------------|----------------|
| 602 | PUR | 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. | | | | |
| 610 | PUR | 22AWG | Yellow | .190" (4.8 mm) |
| 612 | PVC | 22AWG | Yellow | .210" (5.3 mm) |
| 627 | PVC | 24AWG | Black | .232" (5.9 mm) |
| 632 | PVC | 22AWG | Yellow | .190" (4.8 mm) |
| 633 | PVC | 22AWG | Yellow | .190" (4.8 mm) |
| 637 | TPE/PLTC | 18AWG | Yellow | .280" (7.1 mm) |
| 643 | TPE/PLTC | 22AWG | Yellow | .246" (6.2 mm) |
| 644 | PUR | 22AWG | Yellow | .210" (5.3 mm) |
| 645 | PUR | 18AWG | Yellow | .220" (5.6 mm) |
| 679 | PUR | 22AWG | Yellow | .190" (4.8 mm) |
| 713 | TPE/PLTC | 22AWG | Yellow | .280" (7.1 mm) |
| 727 | TPE/PLTC | 22AWG | Yellow | .335" (8.5 mm) |
| 731 | TPE/PLTC | 18AWG | Yellow | .261" (6.6 mm) |
| 794 | TPE/PLTC | 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 | 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 | 4 | 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 | 5 | 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 | 8 | PVC | 2 M / 5 M / 10 M | |
| RKT 8-727/...M RKWT 8-727/...M | | TPE/PLTC | 2 M / 5 M / 10 M | |