lumbergautomation
A BELDEN BRAND

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

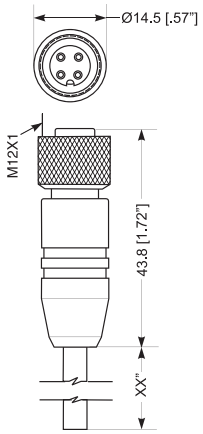
RKT | RKWT

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 —

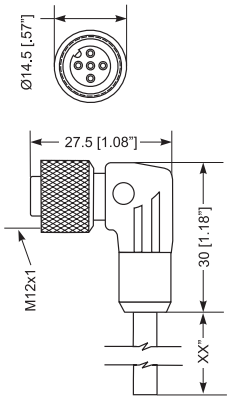
RKT



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

1 = brown
2 = n.c.
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

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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	250 V
RKT/RKWT 8-XXX:	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	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	