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

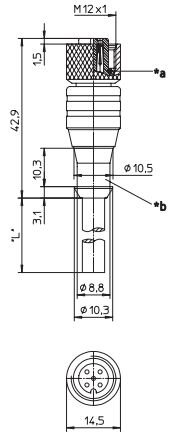
RKT | RKWT



3-, 4-, 5-, 8-, and 12-Poles

Actuator/sensor cordset, single-ended, M12, 3-, 4-, 5-, 8-, and 12-poles, female straight connector with self-locking thread and molded cable.

RKT

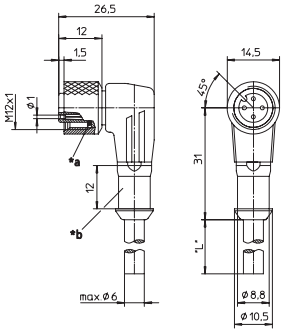


***a O-ring**
*** b Hose mounting**



Actuator/sensor cordset, single-ended, M12, 3-, 4-, 5-, 8-, and 12-poles, female 90° connector with self-locking thread and molded cable.

RKWT



***a O-ring**
*** b Hose mounting**

Pin Assignments

M12 - Male

3 poles



1 = brown
2 = N.C.
3 = blue
4 = black

4 poles



1 = brown
2 = white
3 = blue
4 = black

5 poles



1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow
(RST 5-56/...M = grey

6 poles



1 = white
2 = green
3 = yellow
4 = grey
5 = brown
6 = n.c.
7 = blue
8 = n.c.

8 poles

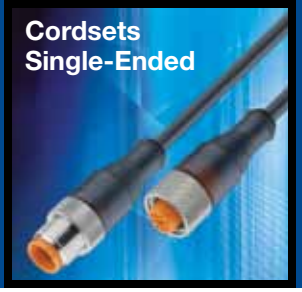


1 = white
2 = brown
3 = green
4 = yellow
5 = grey
6 = pink
7 = blue
8 = shield

12 poles



1 = brown
2 = blue
3 = white
4 = green
5 = pink
6 = yellow
7 = black
8 = grey
9 = red
10 = violet
11 = grey/pink
12 = red/blue



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Technical Data

Environmental

Degree of protection	IP 67 / NEMA 6P
Operating temperature range	-25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body	TPU
Insert	TPU
Contact	CuSn (12 poles: CuZn), pre-nickeled and 0.3 microns gold-plated
Coupling nut	CuZn, nickel-plated
O-ring	FKM

Electrical

Contact resistance	≤ 5 mΩ
Nominal current at 40°C	3–5 poles 4 A, 6-12 poles 2 A
Rated voltage	3–4 poles 250 V 5 poles 63 V, 6-12 poles 36 V

Cable Specifications

Cable No.	Outer Jacket	Conductor Size	Jacket Color	OD
06	**PVC**	**3** x 0.34 mm²	Orange	.197" (5.0 mm)
07	**PVC**	**4** x 0.25 mm²	Orange	.197" (5.0 mm)
56	**PVC**	**5** x 0.34 mm²	Orange	.224" (5.7 mm)
224	**PUR**, halogen-free	**3** x 0.34 mm²	Black	.169" (4.3 mm)
225	**PUR**, halogen-free	**4** x 0.34 mm²	Black	.185" (4.7 mm)
228	**PUR**, halogen-free	**5** x 0.50 mm²	Black	.213" (5.4 mm)
251	**PUR**, halogen-free welding spark proof	**4** x 0.34 mm²	Orange	.185" (4.7 mm)
259	**PUR**, halogen-free welding spark proof	**5** x 0.50 mm²	Orange	.217" (5.5 mm)
260	**PUR**, halogen-free welding spark proof	**3** x 0.34 mm²	Orange	.177" (4.5 mm)
268	**PUR**, halogen-free welding spark proof	**6** x 0.34 mm²	Orange	.236" (6.0 mm)
282	**PUR**, halogen-free	**7** x 0.25 mm²	Black	.236" (6.0 mm)
337	**PUR**, halogen-free	**6** x 0.34 mm²	Black	.236" (6.0 mm)
348	**PUR**, halogen-free	**2** x 0.25 mm² **10** x 0.14 mm²	Black	.236" (6.0 mm)

Part Number		Pins	Outer Jacket	Standard Cable Lengths	Characteristics
RKT 4-3-06/...M	RKWT 4-3-06/...M	**3**	PVC	2 M / 5 M / 10 M	
RKT 4-3-224/...M	RKWT 4-3-224/...M		PUR, halogen-free	2 M / 5 M / 10 M	
RKT 4-3-260/...M	RKWT 4-3-260/...M		PUR, halogen-free / welding spark proof	2 M / 5 M / 10 M	
RKT 4-07/...M	RKWT 4-07/...M	**4**	PVC	2 M / 5 M / 10 M	
RKT 4-225/...M	RKWT 4-225/...M		PUR, halogen-free	2 M / 5 M / 10 M	
RKT 4-251/...M	RKWT 4-251/...M		PUR, halogen-free / welding spark proof	2 M / 5 M / 10 M	
RKT 5-56/...M	RKWT 5-56/...M	**5**	PVC	2 M / 5 M / 10 M	
RKT 5-228/...M	RKWT 5-228/...M		PUR, halogen-free	2 M / 5 M / 10 M	
RKT 5-259/...M	RKWT 5-259/...M		PUR, halogen-free / welding spark proof	2 M / 5 M / 10 M	
RKT 8-6-268/...M	RKWT 8-6-268/...M	**6**	PUR, halogen-free / welding spark proof	2 M / 5 M / 10 M	
RKT 8-6-337/...M	RKWT 8-6-337/...M		PUR, halogen-free / welding spark proof	2 M / 5 M / 10 M	
RKT 8-282/...M	RKWT 8-282/...M	**8**	PUR, halogen-free	2 M / 5 M / 10 M	
RKT 12-348/...M	RKWT 12-348/...M	**12**	PUR, halogen-free	2 M / 5 M / 10 M	