

M12-Round-Plug Connector, Single-Ended Cordsets, According to IEC 60529

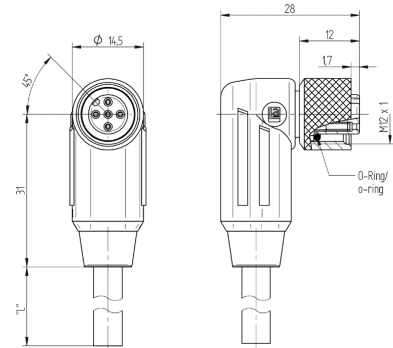
RKWTS



4-, 5-, and 8-Poles (360° Shielding)

Actuator/sensor cordset, M12 female right angle connector with threaded joint and molded cable, 360° shielding connected to knurled nut

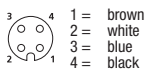
RKWTS



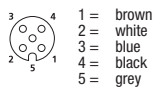
Pin Assignments

M12 - Male

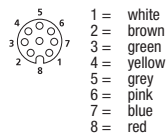
4 poles



5 poles



8 poles





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Technical Data

Environmental

Degree of protection	IP 67 / IP 68 / IP 69K
Operating temperature range	-25°C / +85°C

Mechanical

Housing / Molded body	TPU, orange
Insert	PBT, black
Contact	4 to 5 poles: CuSn 8 poles: CuZn
Contact surface	Cu/Au
Coupling nut	CuZn, nickel-plated
Shield sleeve	CuZn, tin-plated
O-ring	FKM

Electrical

Contact resistance	≤ 5 mΩ
Nominal current at 40°C	4 to 5 poles: 4 A 8 poles: 2 A
Rated voltage	4 poles: 240 V AC/DC 5 poles 60 V AC/DC 8 poles 30 V AC/DC
Test voltage	4 poles 2.0 kV 5–8 poles 1.5 kV
Insulation resistance	> 10 ⁹ Ω
Pollution degree	3 DIN EN 60664-1 (VDE0110)

Cable Specifications

Cable No.	Outer Jacket	Conductor Size	Jacket Color	OD
182	PVC , shielded	4 x 0.34 mm ²	Orange	.217" (5.5 mm)
183	PVC , shielded	5 x 0.34 mm ²	Orange	.236" (6.0 mm)
184	PVC , shielded	8 x 0.25 mm ²	Orange	.260" (6.6 mm)
288	PUR , halogen-free, shielded	4 x 0.34 mm ²	Black	.217" (5.5 mm)
298	PUR , halogen-free, shielded	5 x 0.34 mm ²	Black	.236" (6.0 mm)
299	PUR , halogen-free, shielded	8 x 0.25 mm ²	Black	.260" (6.6 mm)

Part Number	Pins	Outer Jacket	Standard Cable Lengths	Characteristics
Female 90°				
RKWTS 4-182/...M	4	PVC	1 M / 2 M / 5 M / 7 M / 10 M / 15 M / 25 M	UL    
RKWTS 4-288/...M		PUR, halogen-free	2 M / 5 M / 6 M / 10 M / 15 M / 20 M / 30 M	UL    
RKWTS 5-183/...M	5	PVC	2 M / 5 M / 10 M	UL    
RKWTS 5-298/...M		PUR, halogen-free	0.2 M / 2 M / 5 M / 10 M / 15 M / 20 M / 30 M	UL    
RKWTS 8-184/...M	8	PVC	2 M / 5 M	UL    
RKWTS 8-299/...M		PUR, halogen-free	2 M / 5 M / 10 M / 15 M / 20 M	UL    

Mouser Electronics

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