



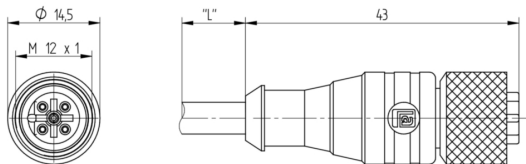
Product: [RKT 5B-48](#)

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, B-coded, orange body, 50 V AC / 60 V DC, 4 A; PVC orange cable, 5-wires, 4x0.34 mm²+1x0.50 mm²(GNYE)

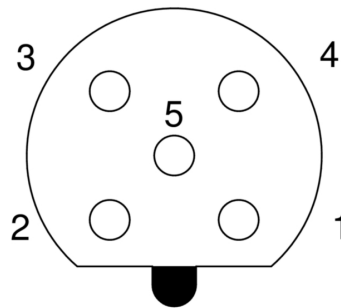
Product Description

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Technical Drawing



Female



Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	green-yellow

Technical Data

Product Family:	Sensor / Actuator Connectors
Side 1 Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Female
Connector Design:	Straight
Number of Pins:	5
Coding, Side 1:	B
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	4 A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm

Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 25 °C - + 70 °C
Protection Degree / IP Rating**:	IP65, IP67
Side 1 Design Standard:	Pin assignment deviating from IEC 61076-2-101 and IEC 61140
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overtoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuZn
Side 1 Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	TPU
Molded Body Color:	Orange
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	FKM, green

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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Cable Data

Cable Number:	048
Conductor Size:	4x0.34 mm ² +1x0.50 mm ² (GNYE)
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor Material:	Cu
Cable Jacket Material:	PVC
Cable Jacket Color:	orange
Cable Diameter D:	ø 5.80 ± 0.20 mm
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 1.50 mm @ 0.34 mm ² ; ø 1.60 mm @ 0.50 mm ²
Ambient Temperature (Fixed Installation):	- 40 °C - + 70 °C
Ambient Temperature (Flex Installation):	+ 5 °C - + 70 °C
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Free of lacquer wetting disturbing substances; Exclusion of silicone
Core Colors:	brown, white, blue, black, green-yellow

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Oil Resistance:	Good chemical and oil resistance
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Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

History

Update and Revision:	Revision Number: 0.83 Revision Date: 02-20-2026
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Variants

Item #	Item Description	Cable Length	Rated Current
13306	RKT 5B-48/5 M	5 m	4 A

50329	RKT 5B-48/10 M	10 m	4 A
19834	RKT 5B-48/15 M	15 m	4 A
20027	RKT 5B-48/20 M	20 m	4 A
600000302	RKT 5B-48/5 M	5 m	4 A

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