



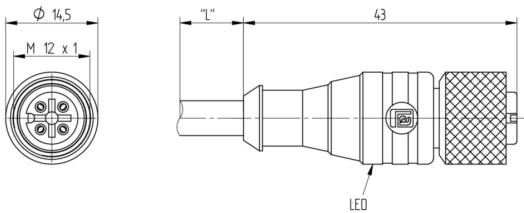
Product: [RKT/LED F 4-251](#)

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 4-pin, A-coded, translucent body, 10-30 V DC, 4 A, with 2xLEDs (PNP); PUR orange cable, 4-wires, 0.34 mm²

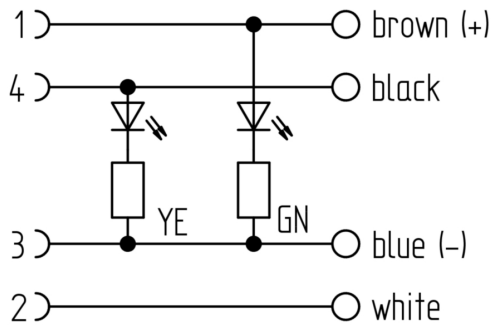
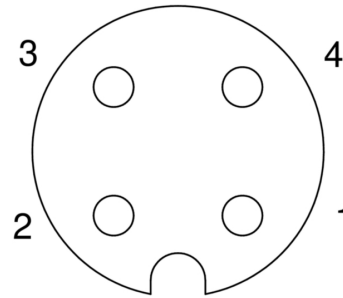
Product Description

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Technical Drawing



Female



Technical Specifications

Face View

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

Technical Data

Product Family:	Sensor / Actuator Connectors
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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:	4
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	30 V
Rated Voltage (UL):	10-30 V DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	10-30 V DC
Current Rating:	4 A
Rated Current (UL)*:	4 A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Side 1 Design Standard:	IEC 61076-2-101
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

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

Protection Circuitry

Function Indicator:	2xLEDs (PNP)
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Additional Technical Data

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

Cable Number:	251
Conductor Size:	0.34 mm ²
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Welding Resistance:	Welding spark resistant
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	orange
Cable Diameter D:	ø 4.70 ± 0.15 mm

Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
Cable Characteristics:	Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Seatwater resistance; Coldness flexibility

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	DIN EN 60811-2-1

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: 0.65 Revision Date: 02-20-2026
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Variants

Item #	Item Description	Cable Length	Rated Current
11514	RKT/LED F 4-251/3 M	3 m	4 A
14675	RKT/LED F 4-251/5 M	5 m	4 A

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