lumbergautomation
A BELDEN BRAND

Product: RST 3-RKWT/LED A 4-3-224

Sensor/Actuator Double-Ended Cordset: Male straight A-coded translucent 4-pin M12 Standard connector to female angled A-coded translucent 4-pin M12 Standard connector with 2xLEDs (PNP), 10-30 V DC, 4 A; PUR black cable, 3-wires, 0.34 mm²

Product Description

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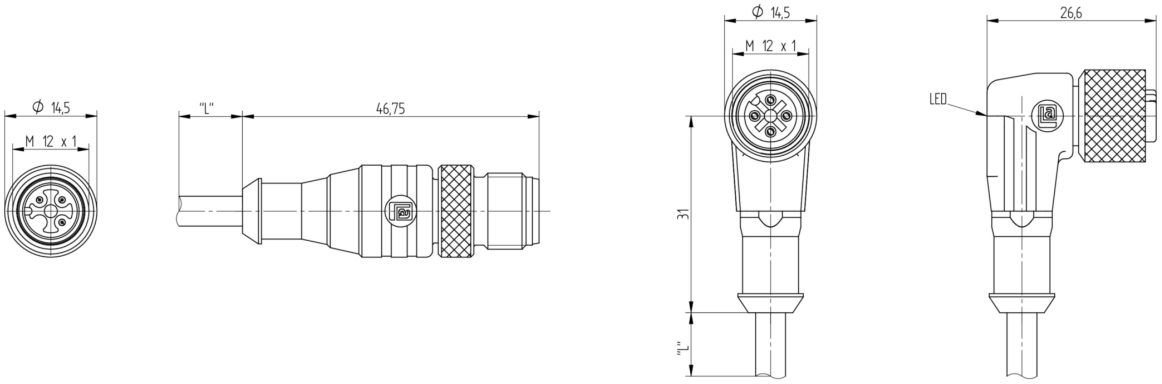
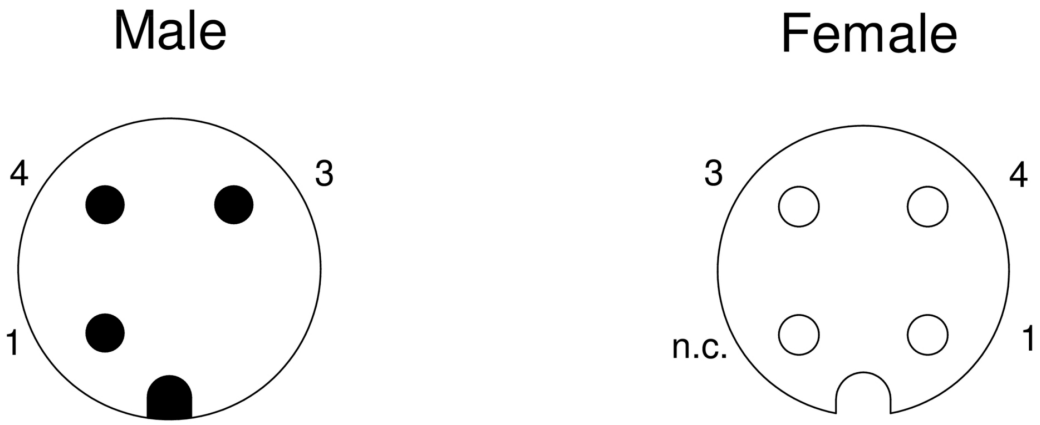
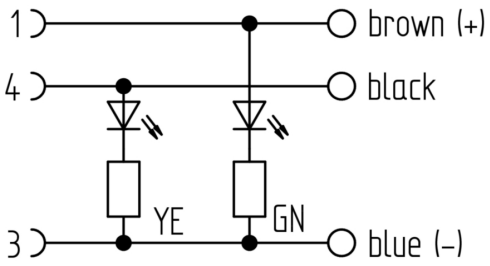
Technical Drawing







Technical Specifications

Face View Side 1

Pin 1	Pin 3	Pin 4
brown	blue	black

Face View Side 2

Pin 1	Pin 2	Pin 3	Pin 4
brown	n.c.	blue	black

Product Description

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	30 V
Rated Voltage (UL):	10-30 V DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	10-30 V DC
Rated Current*:	4 A
Rated Current (UL)*:	4 A

Technical Data Side 1

Product Sub Family:	M12 Standard
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	A
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
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU-GF
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	224
Conductor Size:	0.34 mm²
Number of Wires:	3
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
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black matt similarly RAL 9005
Cable Diameter D:	ø 4.30 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 ± 0.10 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 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Free of lacquer wetting disturbing substances; Coldness Flexibilty

Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Angled
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	4
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Operating Temperature (UL), Side 2:	max. + 50 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuSn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	TPU
Contact Bearer Color, Side 2:	Orange
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Translucent
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
O-Ring Material, Side 2:	FKM, green

Function Indicator, Side 2:	2xLEDs (PNP)
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note Derating:	Notice derating

Variants

Item #	Item Description	Cable Length
11781	RST 3-RKWT/LED A 4-3-224/2 M	2 m
11785	RST 3-RKWT/LED A 4-3-224/8 M	8 m
52259	RST 3-RKWT/LED A 4-3-224/12 M	12 m
11776	RST 3-RKWT/LED A 4-3-224/0,3 M	0.3 m
11777	RST 3-RKWT/LED A 4-3-224/0,6 M	0.6 m
78267	RST 3-RKWT/LED A 4-3-224/0,75 M	0.75 m
11778	RST 3-RKWT/LED A 4-3-224/1 M	1 m
11779	RST 3-RKWT/LED A 4-3-224/1,5 M	1.5 m
11780	RST 3-RKWT/LED A 4-3-224/10 M	10 m
55379	RST 3-RKWT/LED A 4-3-224/15 M	15 m
45988	RST 3-RKWT/LED A 4-3-224/2,5 M	2.5 m
105057	RST 3-RKWT/LED A 4-3-224/20 M	20 m
76875	RST 3-RKWT/LED A 4-3-224/25 M	25 m
11782	RST 3-RKWT/LED A 4-3-224/3 M	3 m
43731	RST 3-RKWT/LED A 4-3-224/4 M	4 m
11783	RST 3-RKWT/LED A 4-3-224/5 M	5 m
47121	RST 3-RKWT/LED A 4-3-224/6 M	6 m
7492	RST 3-RKWT/LED A 4-3-224/7 M	7 m
49595	RST 3-RKWT/LED A 4-3-224/7,5 M	7.5 m