lumbergautomation
A BELDEN BRAND



Product: RST 5-87

M12 Standard Sensor/Actuator Single-Ended Cordset: Male, straight, 5-pin, A-coded, translucent body, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.34 mm²

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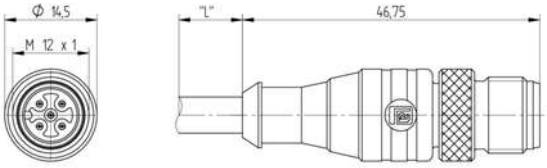
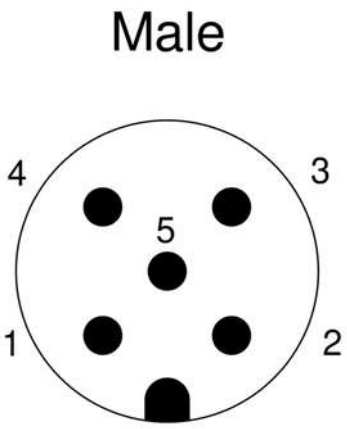
Technical Drawing





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

Mating Cycles:	≤ 100
Ambient Temperature (Operation):	- 40 °C - + 90 °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)

Materials

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

Additional Technical Data

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

Cable Data

Cable Number:	087
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black matt similarly RAL 9005
Cable Diameter D:	ø 5.50 ± 0.20 mm
Wire Insulation Material:	PVC TI2
Insulated Wire Diameter:	ø 1.40 ± 0.05 mm
Ambient Temperature (Fixed Installation):	- 40 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 20 °C - + 80 °C
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; LABS-free of lacquer wetting disturbing substances; Exclusion of silicone

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Oil Resistance:	TM5 HD21.1 S4

Notes

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

Variants

Item #	Item Description	Cable Length
59244	RST 5-87/0,5 M	0.5 m
15793	RST 5-87/1 M	1 m
15792	RST 5-87/2 M	2 m
15794	RST 5-87/5 M	5 m
15795	RST 5-87/10 M	10 m
796	RST 5-87/15 M	15 m

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