lumbergautomation
A BELDEN BRAND

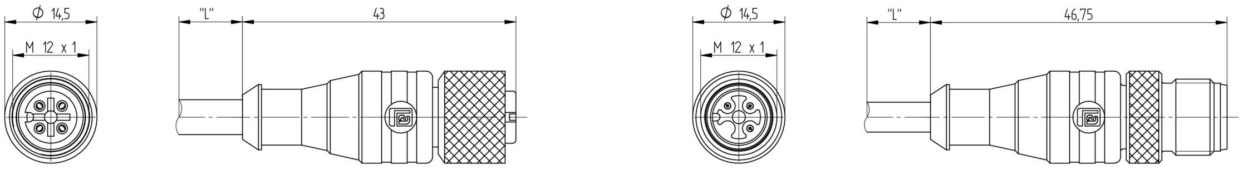
Product: RST 3-RKT 4-3-659

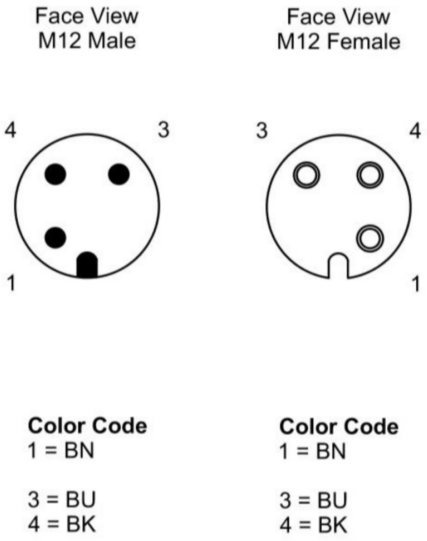
Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Straight Male, 3-pole to a, M12 Standard, Straight Female, 3-pole; with Grey PVC 22 AWG cable

Product Description

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Straight Male, 3-pole to a, M12 Standard, Straight Female, 3-pole, 250 V | 4 A; with Grey PVC 22 AWG cable

Technical Drawing





Technical Specifications

Product Description

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Voltage Rating:	250 V
Rated Impulse Voltage:	2.5 kV
Operating Voltage:	230 V AC/DC
Current Rating:	4 A

Technical Data Side 1

Side 1 Product Sub Family:	M12 Standard
Side 1 Type of Contact/Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	3
Coding, Side 1:	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
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)
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:	Grey Transluscent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn, Nickel-plated, External thread
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	659
Conductor Size:	22 AWG
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	> 7 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor Material:	Cu [Bare Copper]
Cable Jacket Material:	PVC
Cable Jacket Color:	Grey
Cable Diameter D:	Ø 4.82 mm
Wire Insulation Material:	PVC-SR
Insulated Wire Diameter:	Ø 1.25 mm
Ambient Temperature (Fixed Installation):	- 40 to 105°C
Ambient Temperature (Flex Installation):	- 15 to 105°C
Ambient Temperature (Drag Chain Inst):	- 15 to 105°C
UL Cable Type:	AWM 2661, C(RU) AWM I/II A/B
Flammability Class (Cable Jacket):	UL VW-1, FT1
Cable Characteristics:	Mechanical Resistances, Abrasion, Impact, Weathering; Chemical Resistances to Oils, Acids, Alkalis

Technical Data Side 2

Side 2 Product Sub Family:	M12 Standard

Side 2 Type of Contact/Gender:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Thread
Number of Pins, Side 2:	3
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
Protection Degree / IP Rating, Side 2**:	IP65, IP67
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:	II 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:	Grey Transluscent
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn, Nickel-plated, Internal thread
O-Ring Material, Side 2:	FKM, green or black
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight
Note, Side 2:	Do not connect or disconnect under load.

Approvals

UL-File:	E315587
UL:	Yes
VDE:	Yes

Safety & Environmental Compliance

RoHS Compliant:	Yes

Resistances

Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	Protection Degree and IP Rating per test standard IEC 60529 using a Lumberg Automation mating product
Note Derating:	Notice derating

Variants

Item #	Item Description	Cable Length
600006327	RST 3-RKT 4-3-659/0.3M	0.3 m
600006328	RST 3-RKT 4-3-659/0.6M	0.6 m
600006329	RST 3-RKT 4-3-659/1M	1 m
600006330	RST 3-RKT 4-3-659/1.5M	1.5 m
600006331	RST 3-RKT 4-3-659/2M	2 m
600006332	RST 3-RKT 4-3-659/5M	5 m
600006333	RST 3-RKT 4-3-659/10M	10 m

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