



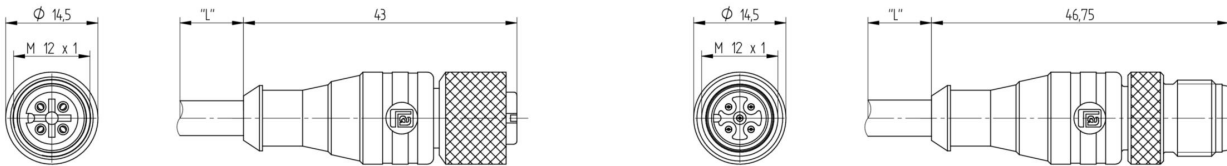
**Product:** [RST 5-RKT 5-647](#)

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Straight Male, 5-pole to a, M12 Standard, Straight Female, 5-pole; with Grey PVC 22 AWG cable

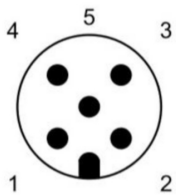
**Product Description**

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Straight Male, 5-pole to a, M12 Standard, Straight Female, 5-pole, 60 V | 4 A; with Grey PVC 22 AWG cable

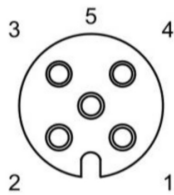
**Technical Drawing**



Face View  
M12 Male



Face View  
M12 Female



**Color Code**

- 1 = BN
- 2 = WH
- 3 = BU
- 4 = BK
- 5 = GY

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**Technical Specifications**

[Product Description](#)

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Voltage Rating:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V 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:	5
Coding, Side 1:	A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65, IP67
Side 1 Design Standard:	IEC 61076-2-101
Side 1 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 Translucent
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:	647
Conductor Size:	22 AWG
Number of Wires:	5
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 5.38 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
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Side 2 Type of Contact/Gender:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Thread
Number of Pins, Side 2:	5
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> 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 Translucent
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
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## Resistances

Oil Resistance:	Good chemical and oil resistance
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## 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
600006391	RST 5-RKT 5-647/0.3M	0.3 m
600006392	RST 5-RKT 5-647/0.6M	0.6 m
600006393	RST 5-RKT 5-647/1M	1 m
600006394	RST 5-RKT 5-647/2M	2 m
600006395	RST 5-RKT 5-647/5M	5 m
600006396	RST 5-RKT 5-647/10M	10 m
600006482	RST 5-RKT 5-647/15M	15 m
600006546	RST 5-RKT 5-647/1.5M	1.5 m
600007180	RST 5-RKT 5-647/3M	3 m
600007469	RST 5-RKT 5-647/20M	20 m

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