



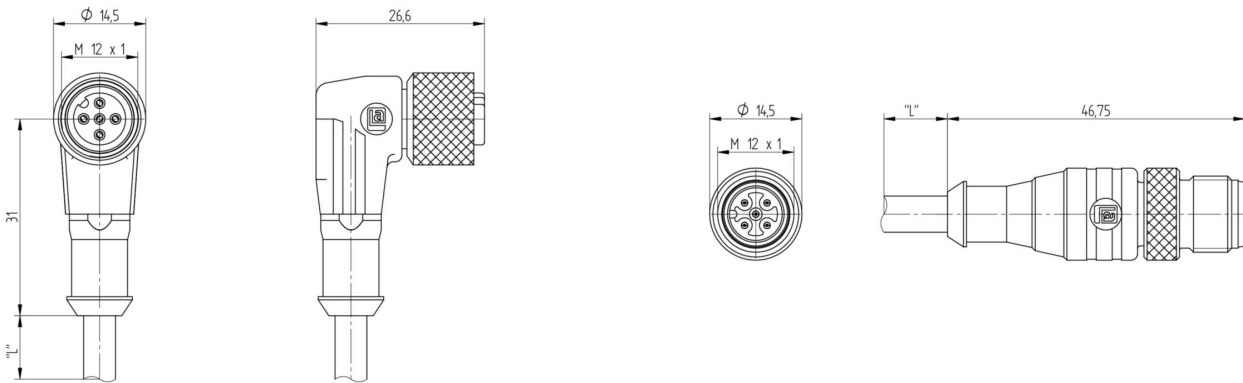
Product: [RST 5-RKWT 5-647](#)

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

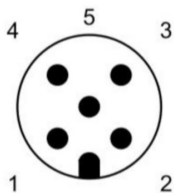
Product Description

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

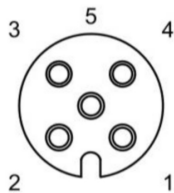
Technical Drawing



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:	Unshielded
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	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:	5
Coding:	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
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:	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

Product Sub Family, Side 2:	M12 Standard
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Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Angled
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 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 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
600006397	RST 5-RKWT 5-647/0.3M	0.3 m
600006398	RST 5-RKWT 5-647/0.6M	0.6 m
600006399	RST 5-RKWT 5-647/1M	1 m
600006400	RST 5-RKWT 5-647/2M	2 m
600006401	RST 5-RKWT 5-647/5M	5 m
600006402	RST 5-RKWT 5-647/10M	10 m
600006552	RST 5-RKWT 5-647/3M	3 m
600006553	RST 5-RKWT 5-647/3.5M	3.5 m

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