



Product: [RKTN 8-661](#)

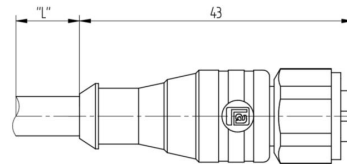
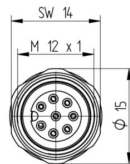
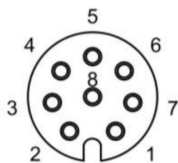
Sensor / Actuator Connector: M12 Standard, Cordset, Single ended, Straight Female, 8-pole; with Grey PVC 24 AWG cable with Stainless Steel Coupling Nuts

Product Description

Sensor / Actuator Connector: M12 Standard, Cordset, Single ended, Straight Female, 8-pole, 60 V | 2 A; with Grey PVC 8x24 AWG cable with Stainless Steel Coupling Nuts

Technical Drawing

Face View
M12 Female



Color Code

- 1 = WH
- 2 = BN
- 3 = GN
- 4 = YE
- 5 = GY
- 6 = PK
- 7 = BU
- 8 = RD

Technical Specifications

Technical Data

Product Family:	Sensor / Actuator Connector
Side 1 Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Female
Connector Design:	Straight
Number of Pins:	8
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	60 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	30 V AC/DC
Current Rating:	2 A

Side 1 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
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)

Materials

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:	316 grade: Stainless Steel, Hex Internal thread
O-Ring Material:	FKM, green or black

Additional Technical Data

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

Cable Number:	661
Conductor Size:	24 AWG
Number of Wires:	8
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 6.02 mm
Wire Insulation Material:	PVC-SR
Insulated Wire Diameter:	Ø1.15
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

Approvals

UL-File:	E315587
UL:	Yes
VDE:	Yes

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Notes

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

History

Update and Revision:	Revision Number: 0.15 Revision Date: 02-20-2026
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