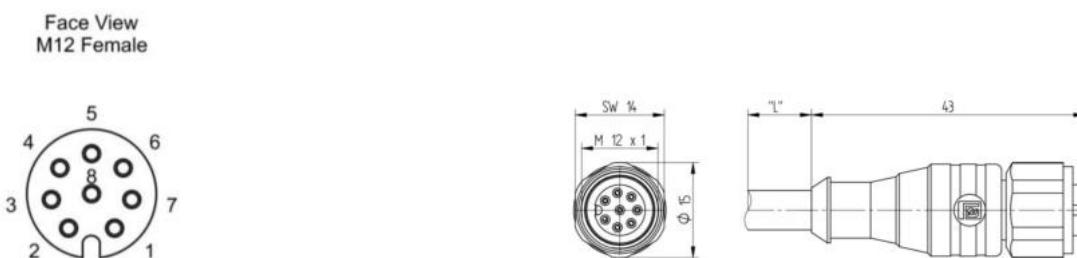



Product: [RKTN 8-661](#)

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

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

Materials

| | |
|--------------------------------------|---|
| 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: | 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 |
|--------------------------------|---------------------------------|

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, Alkalies |

Approvals

| | |
|----------|---------|
| UL-File: | E315587 |
| UL: | Yes |
| VDE: | Yes |

Safety & Environmental Compliance

| | |
|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

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 |

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