



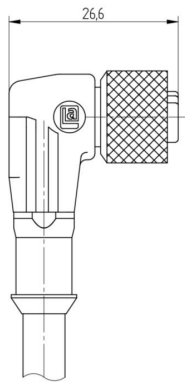
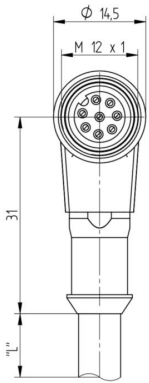
Product: [RSWT 8-RKWT 8-661](#)

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Angled Male, 8-pole to a, M12 Standard, Angled Female, 8-pole; with Grey PVC 24 AWG cable

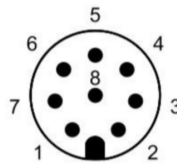
Product Description

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Angled Male, 8-pole to a, M12 Standard, Angled Female, 8-pole, 30 V | 2 A; with Grey PVC 24 AWG cable

Technical Drawing

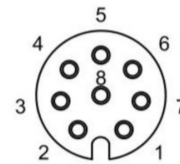


Face View
M12 Male

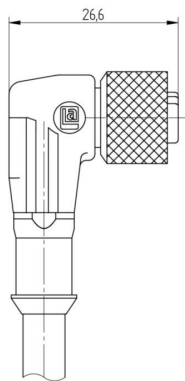
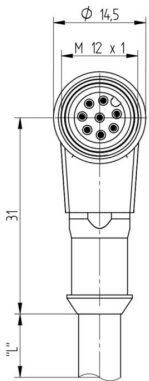


- Color Code**
 1 = WH
 2 = BN
 3 = GN
 4 = YE
 5 = GY
 6 = PK
 7 = BU
 8 = RD

Face View
M12 Female



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



Technical Specifications

Product Description

| | |
|------------------------|------------------------------|
| Product Family: | Sensor / Actuator Connectors |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, double ended |
| Shielding Type: | Unshielded |
| Voltage Rating: | 30 V |
| Rated Impulse Voltage: | 0.8 kV |
| Operating Voltage: | 30 V AC/DC |
| Current Rating: | 2 A |

Technical Data Side 1

| | |
|--------------------------------------|----------------------------------------|
| Side 1 Product Sub Family: | M12 Standard |
| Side 1 Type of Contact/Gender: | Male |
| Connector Design: | Angled |
| Attachment Type: | Coupling Screw |
| Number of Pins: | 8 |
| 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: | Yellow |
| 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: | 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 |

Technical Data Side 2

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|----------------------------|--------------|
| Side 2 Product Sub Family: | M12 Standard |
|----------------------------|--------------|

| | |
|----------------------------------------------|------------------------------------------|
| Side 2 Type of Contact/Gender: | Female |
| Connector Design, Side 2: | Angled |
| Attachment Type, Side 2: | Coupling Thread |
| Number of Pins, Side 2: | 8 |
| 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

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

Resistances

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|-----------------|----------------------------------|
| Oil Resistance: | Good chemical and oil resistance |
|-----------------|----------------------------------|

Notes

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|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| 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 |
|-----------|------------------------|--------------|
| 600006455 | RSWT 8-RKWT 8-661/0.3M | 0.3 m |
| 600006456 | RSWT 8-RKWT 8-661/0.6M | 0.6 m |
| 600006457 | RSWT 8-RKWT 8-661/1M | 1 m |
| 600006458 | RSWT 8-RKWT 8-661/2M | 2 m |
| 600006459 | RSWT 8-RKWT 8-661/5M | 5 m |
| 600006460 | RSWT 8-RKWT 8-661/10M | 10 m |

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