



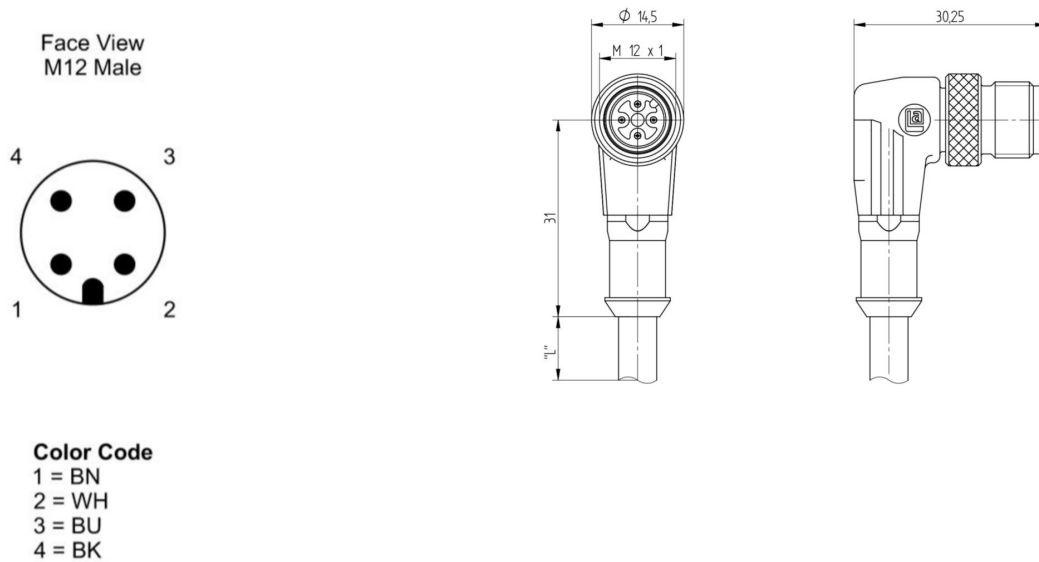
Product: [RSWT 4-646](#)

Sensor / Actuator Connector: M12 Standard, Cordset, Single ended, Angled Male, 4-pole; with Grey PVC 22 AWG cable

Product Description

Sensor / Actuator Connector: M12 Standard, Cordset, Single ended, Angled Male, 4-pole, 250 V | 4 A; with Grey PVC 4x22 AWG cable

Technical Drawing



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: | Male |
| Connector Design: | Angled |
| Number of Pins: | 4 |
| Coding: | A |
| Shielding: | Unshielded |
| Attachment Type: | Coupling Screw |
| Rated Voltage: | 250 V |
| Rated Impulse Voltage: | 2.5 kV |
| Operating Voltage: | 230 V AC/DC |
| Rated Current*: | 4 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

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|--------------------------------------|--------------------------------------|
| 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 |

Additional Technical Data

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

Cable Data

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|---|--|
| Cable Number: | 646 |
| Conductor Size: | 22 AWG |
| Number of Wires: | 4 |
| 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 5.10 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 |

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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