



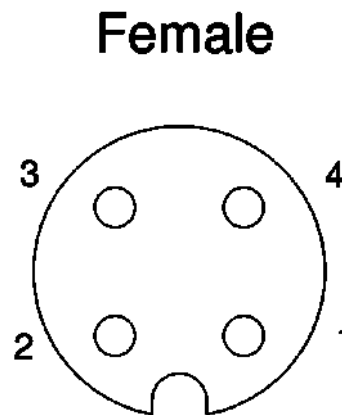
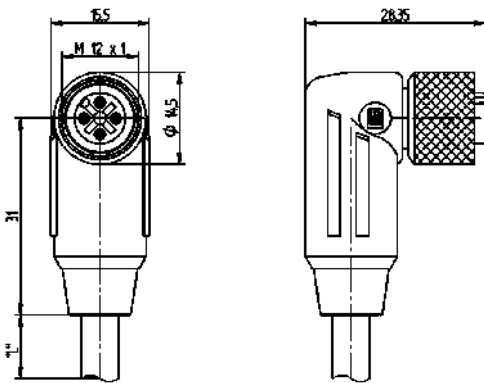
Product: [RKWTS 4-288](#)

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, angled, 4-pin, A-coded, shielded, orange body, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, 0.34 mm²

Product Description

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Technical Drawing



Technical Specifications

Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|-------|-------|-------|-------|
| brown | white | blue | black |

Technical Data

| | |
|---------------------------|------------------------------|
| Product Family: | Sensor / Actuator Connectors |
| Product Sub Family: | M12 Standard |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, single ended |
| Type of Contact / Gender: | Female |
| Connector Design: | Angled |
| Number of Pins: | 4 |
| Coding: | A |
| Shielding: | Shielded |
| Attachment Type: | Coupling Nut |
| Rated Voltage: | 60 V |
| Rated Voltage (UL): | 250 V AC |
| Rated Impulse Voltage: | 1.5 kV |
| Operating Voltage: | 50 V AC / 60 V DC |
| Rated Current*: | 4 A |

| | |
|-----------------------------------|---|
| Rated Current (UL)*: | 4 A |
| Contact Resistance: | ≤ 10 mOhm |
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 100 |
| Ambient Temperature (Operation)*: | - 40 °C - + 90 °C |
| Operating Temperature (UL): | max. + 50 °C |
| Protection Degree / IP Rating**: | IP65, IP67, IP68 (1 m / 24 h), IP69K |
| Design Standard: | IEC 61076-2-101 |
| Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Overvoltage Category: | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|-------------------------------|
| Contact Base Material: | CuSn |
| Contact Plating: | Cu/Au |
| Contact Bearer Material: | PA |
| Contact Bearer Color: | Black |
| Flammability Class (Contact Bearer): | UL 94 V-0 |
| Molded Body Material: | TPU |
| Molded Body Color: | Orange |
| Flammability Class (Molded Body): | UL 94 V-2 |
| Attachment Material: | CuZn |
| Attachment Plating: | Nickel-plated |
| Shielding Material: | Housing: GD-Zn, nickel-plated |
| Shielding Material: | Sleeve: CuZn, tin-plated |
| O-Ring Material: | FKM, green |

Additional Technical Data

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

Cable Data

| | |
|---|--|
| Cable Number: | 288 |
| Conductor Size: | 0.34 mm ² |
| Number of Wires: | 4 |
| Minimal Bending Radius (Fixed Inst): | > 5 x D |
| Minimal Bending Radius (Flexible Inst): | > 10 x D |
| Cycles (Bending): | > 5 M |
| Cycles (Torsion): | > 1 M @ ± 180 °/1 m |
| Conductor material: | Cu |
| Cable Jacket Material: | PUR |
| Cable Jacket Color: | black |
| Cable Diameter D: | ø 5.50 ± 0.20 mm |
| Wire Insulation Material: | PP |
| Insulated Wire Diameter: | ø 1.30 mm |
| Overall Shield (Cable): | Mesh wire |
| Ambient Temperature (Fixed Installation): | - 50 °C - + 80 °C |
| Ambient Temperature (Flex Installation): | - 25 °C - + 80 °C |
| Ambient Temperature (Drag Chain Inst): | - 25 °C - + 60 °C |
| UL Cable Type: | AWM: 20549 |
| Flammability Class (Cable Jacket): | DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2 |
| Cable Characteristics: | Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility |

Approvals

| | |
|----------|----------------|
| UL-File: | E315587 |
| UL: | UL 2238; cURus |

Safety & Environmental Compliance

| | |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

Resistances

| | |
|-----------------|---|
| Halogenfree: | DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 |
| Oil Resistance: | Good chemical and oil resistance |

Notes

| | |
|-------------------------------------|--|
| Note Derating: | Notice derating |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note: | Do not connect or disconnect under load. |

Variants

| Item # | Item Description | Cable Length |
|-----------|-------------------|--------------|
| 8725 | RKWTS 4-288/1 M | 1 m |
| 934703011 | RKWTS 4-288/2 M | 2 m |
| 2482 | RKWTS 4-288/3 M | 3 m |
| 934703014 | RKWTS 4-288/5 M | 5 m |
| 934703015 | RKWTS 4-288/6 M | 6 m |
| 934703009 | RKWTS 4-288/10 M | 10 m |
| 934703010 | RKWTS 4-288/15 M | 15 m |
| 934703012 | RKWTS 4-288/20 M | 20 m |
| 8129 | RKWTS 4-288/25 M | 25 m |
| 934703013 | RKWTS 4-288/30 M | 30 m |
| 6778 | RKWTS 4-288/35 M | 35 m |
| 5595 | RKWTS 4-288/40 M | 40 m |
| 14911 | RKWTS 4-288/45 M | 45 m |
| 8771 | RKWTS 4-288/50 M | 50 m |
| 9276 | RKWTS 4-288/60 M | 60 m |
| 15908 | RKWTS 4-288/70 M | 70 m |
| 9424 | RKWTS 4-288/100 M | 100 m |
| 15933 | RKWTS 4-288/110 M | 110 m |
| 18341 | RKWTS 4-288/125 M | 125 m |
| 13525 | RKWTS 4-288/150 M | 150 m |
| 17582 | RKWTS 4-288/180 M | 180 m |

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