



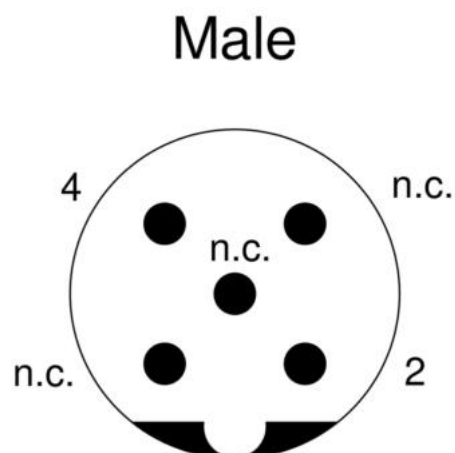
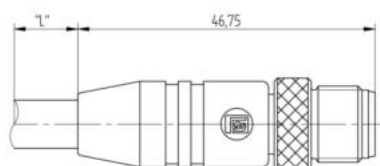
Product: [0975 254 102](#) 

PROFIBUS Data Single-Ended Cordset: M12 Standard, male, straight, 5-pin, B-coded, shielded, black body, 50 V AC / 60 V DC, 4 A; PUR violet cable, 2-wires, 0.34 mm²

Product Description

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Technical Drawing



Technical Specifications

Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|-------|-------|-------|-------|-------|
| n.c. | green | n.c. | red | n.c. |

Technical Data

| | |
|---------------------------|-----------------------|
| Product Family: | Data Connectors |
| Product Sub Family: | M12 Standard |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, single ended |
| Type of Contact / Gender: | Male |
| Connector Design: | Straight |
| Number of Pins: | 5 |
| Coding: | B |
| Shielding: | Shielded |
| Attachment Type: | Coupling Screw |
| Rated Voltage: | 60 V |
| Rated Impulse Voltage: | 1.5 kV |
| Operating Voltage: | 50 V AC / 60 V DC |
| Rated Current*: | 4 A |
| Data Transmission: | PROFIBUS |
| Contact Resistance: | ≤ 10 mOhm |

| | |
|-----------------------------------|---|
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 100 |
| Ambient Temperature (Operation)*: | - 25 °C - + 80 °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: | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|------------------|
| Contact Base Material: | CuZn |
| Contact Plating: | Cu/Au |
| Contact Bearer Material: | TPU-GF |
| Contact Bearer Color: | Violett |
| Flammability Class (Contact Bearer): | UL 94 HB |
| Molded Body Material: | TPU |
| Molded Body Color: | Black |
| Flammability Class (Molded Body): | UL 94 HB |
| Attachment Material: | CuZn |
| Attachment Plating: | Nickel-plated |
| Shielding Material: | CuZn, tin-plated |

Additional Technical Data

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

Cable Data

| | |
|---|---|
| Cable Number: | 254 |
| Conductor Size: | 0.34 mm ² |
| Number of Wires: | 2 |
| Minimal Bending Radius (Fixed Inst): | > 5 x D |
| Minimal Bending Radius (Flexible Inst): | > 10 x D |
| Cycles (Bending): | > 1 M |
| Conductor material: | Cu |
| Cable Jacket Material: | PUR |
| Cable Jacket Color: | violet matt similarly RAL 4001 |
| Cable Diameter D: | ø 7.60 ± 0.30 mm |
| Wire Insulation Material: | PE |
| Insulated Wire Diameter: | ø 2.60 ± 0.05 mm |
| Overall Shield (Cable): | Cu-ETP1 tinned |
| Foil shield: | Al-PT Foil |
| 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, flame-retardant |
| Cable Characteristics: | Exclusion of dangerous materials; Line fulfills the transmission values RS485 (Type A) of the PROFIBUS user organization; Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; Coldness flexibility |
| Core Colors: | red, green |

Safety & Environmental Compliance

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

Resistances

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 |
|--------|--------------------|--------------|
| 63558 | 0975 254 102/0,3 M | 0.3 m |
| 39659 | 0975 254 102/0,5 M | 0.5 m |
| 89452 | 0975 254 102/0,6 M | 0.6 m |
| 12503 | 0975 254 102/1 M | 1 m |
| 17062 | 0975 254 102/2 M | 2 m |
| 12502 | 0975 254 102/3 M | 3 m |
| 27684 | 0975 254 102/4 M | 4 m |
| 12501 | 0975 254 102/5 M | 5 m |
| 29277 | 0975 254 102/6 M | 6 m |
| 56922 | 0975 254 102/8 M | 8 m |
| 34625 | 0975 254 102/10 M | 10 m |
| 62291 | 0975 254 102/15 M | 15 m |
| 47928 | 0975 254 102/20 M | 20 m |
| 47929 | 0975 254 102/25 M | 25 m |
| 47930 | 0975 254 102/30 M | 30 m |
| 47845 | 0975 254 102/40 M | 40 m |

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