

**Product: [RST 5L-1001](#)**

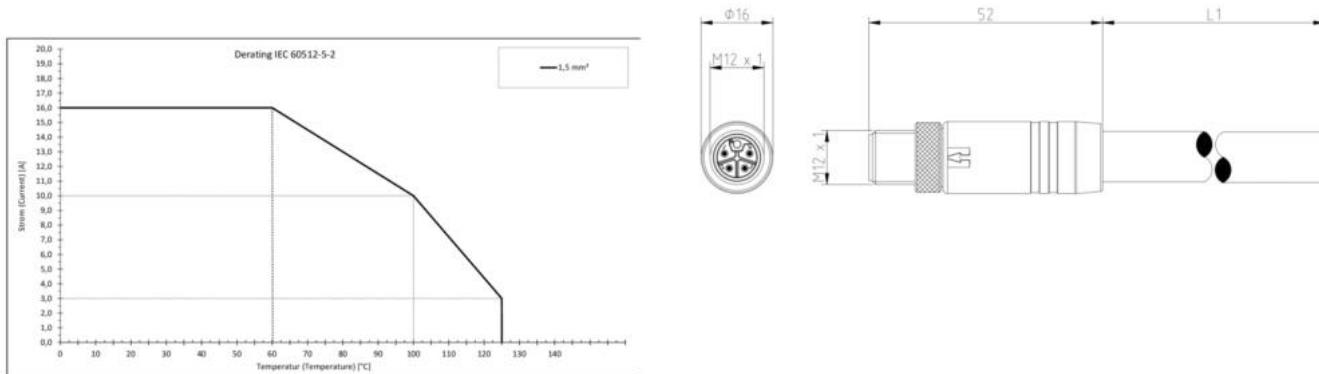


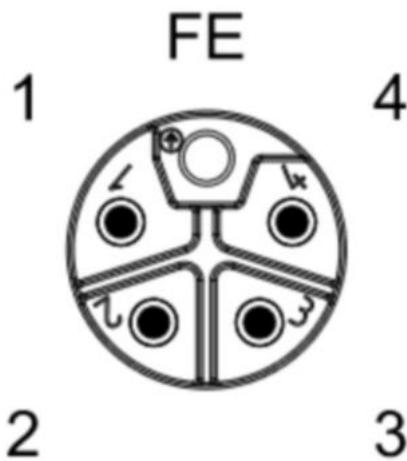
M12 Power Single-Ended Cordset: Male, straight, 5-pin(4+FE), L-coded, blue body, 50 V AC/60 V DC, 16 A; TPE black cable, 1.50 mm<sup>2</sup>

**Product Description**

M12 Power Single-Ended Cordset: Male, straight, 5-pin(4+FE), L-coded, blue body, 50 V AC/60 V DC, 16 A; TPE black cable, 1.50 mm<sup>2</sup>

**Technical Drawing**





**1 = BN**  
**2 = WH**  
**3 = BU**  
**4 = BK**  
**FE = GY**

## Technical Specifications

### Technical Data

|                                   |   |
|-----------------------------------|---|
| Product Family:                   | Power Connector                         |
| Product Sub Family:               | M12 Power                               |
| Brand:                            | Lumberg Automation                      |
| Connector Type:                   | Cordset, single ended                   |
| Type of Contact / Gender:         | male                                    |
| Connector Design:                 | straight                                |
| Number of Pins:                   | 5                                       |
| Coding:                           | L                                       |
| Shielding:                        | Unshielded                              |
| Attachment Type:                  | Coupling Nut                            |
| Rated Voltage:                    | 63 V                                    |
| Rated Voltage (UL):               | 63 V                                    |
| Rated Impulse Voltage:            | 1.5 kV                                  |
| Rated Current*:                   | 16 A                                    |
| Rated Current (UL)*:              | 16 A                                    |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:                    | ≤ 100                                   |
| Ambient Temperature (Operation)*: | -40 °C to +125 °C, notice derating      |
| Protection Degree / IP Rating**:  | IP65, IP67, IP69K                       |
| Design Standard:                  | IEC 61076-2-111                         |
| Pollution Degree:                 | 3 acc. to DIN EN 60664-1 (VDE 0110-1)   |
| Clearance / Creepage Distance:    | DIN EN 60664-1 (2008/01); VDE 0110-1    |
| Overvoltage Category:             | III acc. to DIN EN 60664-1 (VDE 0110-1) |

**Materials**

|                                      |           |
|--------------------------------------|-----------|
| Contact Base Material:               | CuNi      |
| Contact Plating:                     | Cu/Au     |
| Contact Bearer Material:             | PBT GF    |
| Contact Bearer Color:                | grey      |
| Flammability Class (Contact Bearer): | UL 94 V-2 |
| Molded Body Material:                | TPE       |
| Molded Body Color:                   | blue      |
| Flammability Class (Molded Body):    | UL 94 HB  |
| Attachment Material:                 | CuZn      |
| Attachment Plating:                  | Cu/Ni     |
| O-Ring Material:                     | FKM       |

**Additional Technical Data**

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Fastening Torque (Contact Screw): | M 12x1: (60-65) Ncm, hand-tight |
|-----------------------------------|---------------------------------|

**Cable Data**

|   |  |
|---|--|
| Cable Number:                             | 1001   |
| Conductor Size:                           | 1.50 mm <sup>2</sup>   |
| Conductor Resistance:                     | ≤ 13.3 Ω/km (at 20 °C)   |
| Number of Wires:                          | 5  |
| Minimal Bending Radius (Fixed Inst.):     | > 10 x D   |
| Minimal Bending Radius (Flexible Inst.):  | > 10 x D   |
| Cycles (Bending):                         | > 1 Mio  |
| Conductor material:                       | Cu   |
| Cable Jacket Material:                    | TPE  |
| Cable Jacket Color:                       | black  |
| Cable Diameter D:                         | Ø 9.4 mm ± 0.2 mm  |
| Wire Insulation Material:                 | PVC  |
| Insulated Wire Diameter:                  | ø 2.55 mm  |
| Overall Shield (Cable):                   | -  |
| Ambient Temperature (Fixed Installation): | -40 °C to +90 °C   |
| Ambient Temperature (Flex Installation):  | -5 °C to +90 °C  |
| Ambient Temperature (Drag Chain Inst.):   | -  |
| UL Cable Type:                            | UL/CSA, NEC (UL) TC_ER, WTTC or AWM Style 20328 (900 V 105 °C) |
| Flammability Class (Cable Jacket):        | UL1685 FT4/IEEE 1202 Vertical Tray Flame Test, FT4             |

**Approvals**

|          |                |
|----------|----------------|
| UL-File: | E497237        |
| UL:      | UL 2237; cULus |
| VDE:     | Yes            |

**Safety & Environmental Compliance**

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

**Resistances**

|                 |            |
|-----------------|------------|
| Halogenfree:    | -          |
| Oil Resistance: | Oil Res II |

**Notes**

|                |                   |
|----------------|-------------------|
| Note Derating: | * Notice derating |
|----------------|-------------------|

**Variants**

| Item #    | Item Description | Cable Length |
|-----------|------------------|--------------|
| 934851122 | RST 5L-1001/2 M  | 2 m          |
| 934851125 | RST 5L-1001/5 M  | 5 m          |
| 934851128 | RST 5L-1001/10 M | 10 m         |

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