



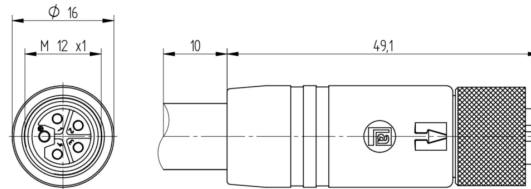
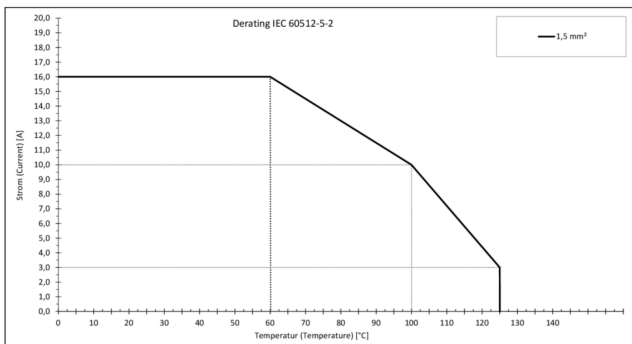
**Product:** [RKTS 5L-956 SW](#)

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

## Product Description

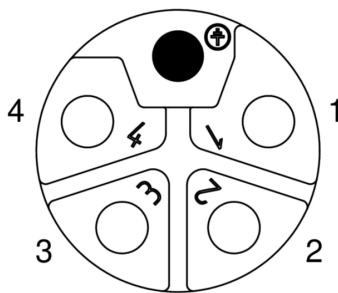
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## Technical Drawing



**Female**

FE



## Technical Specifications

### Face View

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

## Technical Data

|                     |                 |
|---------------------|-----------------|
| Product Family:     | Power Connector |
| Product Sub Family: | M12 Power       |

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Brand:                            | Lumberg Automation                      |
| Connector Type:                   | Cordset, single ended                   |
| Type of Contact / Gender:         | female                                  |
| Connector Design:                 | straight                                |
| Number of Pins:                   | 5(4+FE)                                 |
| Coding:                           | L                                       |
| Shielding:                        | Shielded                                |
| Attachment Type:                  | Coupling Nut                            |
| Rated Voltage:                    | 63 V                                    |
| Rated Voltage (UL):               | 63 V                                    |
| Rated Impulse Voltage:            | 1.5 kV                                  |
| Operating Voltage:                | 50 V AC / 60 V DC                       |
| Rated Current*:                   | 16 A                                    |
| Rated Current (UL)*:              | 16 A                                    |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10^9 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:                   | black             |
| Flammability Class (Molded Body):    | UL 94 HB          |
| Attachment Material:                 | CuZn              |
| Attachment Plating:                  | Cu/Ni             |
| Shielding Material:                  | CuZn, plating: Ni |
| O-Ring Material:                     | FKM               |

Additional Technical Data

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

Cable Data

|                                           |                                |
|-------------------------------------------|--------------------------------|
| Cable Number:                             | 956                            |
| Conductor Size:                           | 1.50 mm²                       |
| Number of Wires:                          | 5                              |
| Minimal Bending Radius (Fixed Inst):      | > 4 x D                        |
| Minimal Bending Radius (Flexible Inst):   | > 7.5 x D                      |
| Cycles (Bending):                         | > 10 M                         |
| Conductor material:                       | Cu                             |
| Cable Jacket Material:                    | PUR                            |
| Cable Jacket Color:                       | grey                           |
| Cable Diameter D:                         | ø 10.4 ±0.20 mm                |
| Wire Insulation Material:                 | PP                             |
| Insulated Wire Diameter:                  | ø 2.35 mm                      |
| Inner Jacket:                             | TPE-O                          |
| Overall Shield (Cable):                   | tinned copper braided screen   |
| Ambient Temperature (Fixed Installation): | -40 °C to +90 °C (UL AWM 80°C) |

|                                                           |                                                                     |
|-----------------------------------------------------------|---------------------------------------------------------------------|
| Ambient Temperature (Flex Installation):                  | -30 °C to +90 °C (UL AWM 80°C)                                      |
| Ambient Temperature (Fixed Installation short-term 100h): | -40 °C to +125 °C                                                   |
| Ambient Temperature (Drag Chain Inst):                    | -20 °C to +60 °C                                                    |
| UL Cable Type:                                            | AWM: 20939                                                          |
| Flammability Class (Cable Jacket):                        | VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1 |

Approvals

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

Safety & Environmental Compliance

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

Resistances

|                 |                                       |
|-----------------|---------------------------------------|
| Halogenfree:    | DIN VDE 0472 T.815                    |
| Oil Resistance: | HD 22.10 Appendix A, DIN EN 60811-404 |

Notes

|                                     |                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note Derating:                      | * Notice derating                                                                                                                                               |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.                                                                    |
| Product Characteristics:            | To ensure ingress protection, please check the O-ring's position before connecting. Improperly positioned O-ring leads to ingress protection potential failure. |

Variants

| Item #    | Item Description    | Cable Length |
|-----------|---------------------|--------------|
| 934849384 | RKTS 5L-956/2 M SW  | 2 m          |
| 934849385 | RKTS 5L-956/5 M SW  | 5 m          |
| 934849386 | RKTS 5L-956/10 M SW | 10 m         |

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