



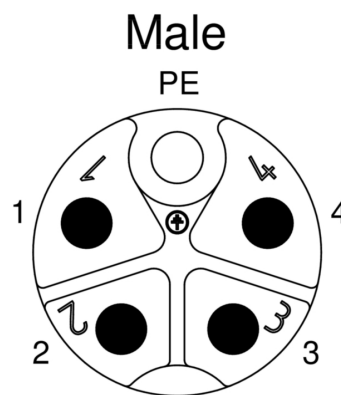
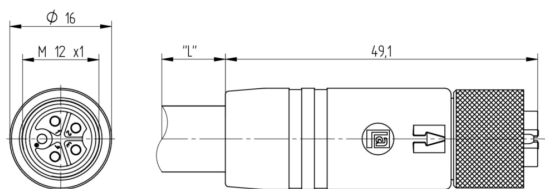
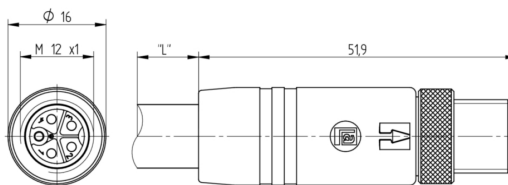
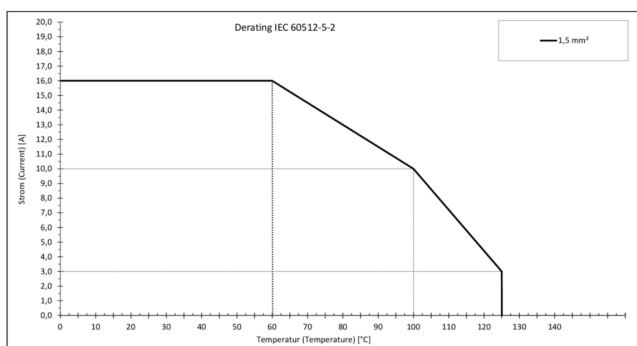
**Product:** [RST 5K-RKT 5K-735](#) 

M12 Power Double-Ended Cordset: Male straight to female straight, 5-pin(4+PE), K-coded, blue body, 600 V AC/DC, 16 A; PVC black cable, 1.50 mm<sup>2</sup>

## Product Description

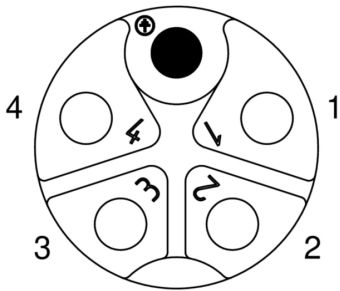
M12 Power Double-Ended Cordset: Male straight to female straight, 5-pin(4+PE), K-coded, blue body, 600 V AC/DC, 16 A; PVC black cable, 1.50 mm<sup>2</sup>

## Technical Drawing



# Female

PE



## Technical Specifications

### Face View Side 1

| Pin 1   | Pin 2   | Pin 3   | Pin 4   | PE           |
|---------|---------|---------|---------|--------------|
| black 1 | black 2 | black 3 | black 4 | green-yellow |

### Face View Side 2

| Pin 1   | Pin 2   | Pin 3   | Pin 4   | PE           |
|---------|---------|---------|---------|--------------|
| black 1 | black 2 | black 3 | black 4 | green-yellow |

## Product Description

|                        |                       |
|------------------------|-----------------------|
| Product Family:        | Power Connector       |
| Brand:                 | Lumberg Automation    |
| Connector Type:        | Cordset, double ended |
| Shielding:             | Unshielded            |
| Rated Voltage:         | 630 V                 |
| Rated Voltage (UL):    | 600 V                 |
| Rated Impulse Voltage: | 6.0 kV                |
| Operating Voltage:     | 600 V AC/DC           |
| Rated Current*:        | 16 A                  |
| Rated Current (UL)*:   | 16 A                  |

## Technical Data Side 1

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Product Sub Family:                  | M12 Power                               |
| Type of Contact / Gender:            | male                                    |
| Connector Design:                    | straight                                |
| Attachment Type:                     | Coupling Screw                          |
| Number of Pins:                      | 5(4+PE)                                 |
| Coding:                              | K                                       |
| 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                              |
| 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) |
| Contact Base Material:               | CuNi                                    |
| Contact Plating:                     | Cu/Au                                   |
| Contact Bearer Material:             | PBT GF                                  |
| Contact Bearer Color:                | blue                                    |
| 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                             |
| Fastening Torque (Contact Screw): | M 12x1: (50-60) Ncm, hand-tight |

Cable Data

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| Cable Number:                             | 735                                                                 |
| 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                                                           |
| Conductor material:                       | Cu                                                                  |
| Cable Jacket Material:                    | PVC                                                                 |
| Cable Jacket Color:                       | black                                                               |
| Cable Diameter D:                         | ø 9.2 ±0.20 mm                                                      |
| Wire Insulation Material:                 | PVC                                                                 |
| Insulated Wire Diameter:                  | ø 2.65 mm                                                           |
| Ambient Temperature (Fixed Installation): | -40 °C to +90 °C                                                    |
| Ambient Temperature (Flex Installation):  | -5 °C to +90 °C                                                     |
| UL Cable Type:                            | AWM: 2587                                                           |
| Flammability Class (Cable Jacket):        | VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1 |

Technical Data Side 2

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Product Sub Family, Side 2:                  | M12 Power                               |
| Type of Contact / Gender, Side 2:            | female                                  |
| Connector Design, Side 2:                    | straight                                |
| Attachment Type, Side 2:                     | Coupling Nut                            |
| Number of Pins, Side 2:                      | 5(4+PE)                                 |
| Coding, Side 2:                              | K                                       |
| Contact Resistance, Side 2:                  | ≤ 10 mOhm                               |
| Insulation Resistance, Side 2:               | > 10^9 Ohm                              |
| Mating Cycles, Side 2:                       | ≤ 100                                   |
| Ambient Temperature (Operation), Side 2*:    | -40 °C to +125 °C, notice derating      |
| Protection Degree / IP Rating, Side 2**:     | IP65, IP67                              |
| Design Standard, Side 2:                     | IEC 61076-2-111                         |
| Pollution Degree, Side 2:                    | 3 acc. to DIN EN 60664-1 (VDE 0110-1)   |
| Clearance / Creepage Distance, Side 2:       | DIN EN 60664-1 (2008/01); VDE 0110-1    |
| Overvoltage Category, Side 2:                | III acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material, Side 2:               | CuNi                                    |
| Contact Plating, Side 2:                     | Cu/Au                                   |
| Contact Bearer Material, Side 2:             | PBT GF                                  |
| Contact Bearer Color, Side 2:                | blue                                    |
| Flammability Class (Contact Bearer), Side 2: | UL 94 V-2                               |
| Molded Body Material, Side 2:                | TPE                                     |
| Molded Body Color, Side 2:                   | blue                                    |
| Flammability Class (Molded Body), Side 2:    | UL 94 HB                                |
| Attachment Material, Side 2:                 | CuZn                                    |
| Attachment Plating, Side 2:                  | Cu/Ni                                   |
| O-Ring Material, Side 2:                     | FKM                                     |
| Fastening Torque (Contact Screw), Side 2:    | M 12x1: (50-60) Ncm, hand-tight         |

Approvals

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

Safety & Environmental Compliance

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

Notes

|                                     |                                                                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.                                                                    |
| Note Derating:                      | * Notice derating                                                                                                                                               |
| 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 |
|-----------|------------------------|--------------|
| 934853040 | RST 5K-RKT 5K-735/2 M  | 2 m          |
| 934853041 | RST 5K-RKT 5K-735/5 M  | 5 m          |
| 934853042 | RST 5K-RKT 5K-735/10 M | 10 m         |

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