



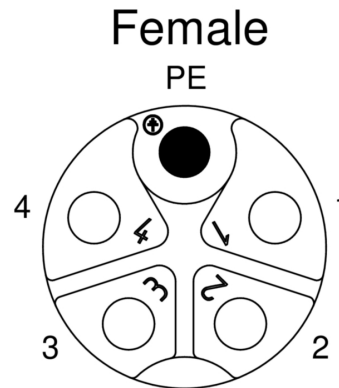
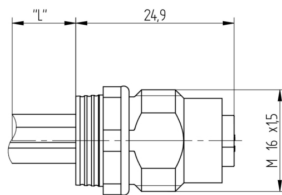
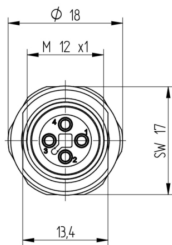
Product: [RKF6S 5K-033](#)

M12 Power Receptacle Connector: Female, front mount, 5-pin(4+PE), K-coded, shielded, silver housing, 600 V AC/DC, 16 A

Product Description

M12 Power Receptacle Connector: Female, front mount, 5-pin(4+PE), K-coded, shielded, silver housing, 600 V AC/DC, 16 A

Technical Drawing



Technical Specifications

Face View

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

Technical Data

| | |
|---------------------------|-----------------------|
| Product Family: | Power Connector |
| Product Sub Family: | M12 Power |
| Brand: | Lumberg Automation |
| Connector Type: | Receptacle |
| Type of Contact / Gender: | female |
| Connector Design: | Front mount |
| Number of Pins: | 5(4+PE) |
| Coding: | K |
| Shielding: | Shielded |
| Attachment Type: | Coupling Nut |
| Rated Voltage: | 630 V |
| Rated Impulse Voltage: | 6.0 kV |
| Operating Voltage: | 600 V AC/DC |
| Rated Current*: | 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: | blue |
| Flammability Class (Contact Bearer): | UL 94 V-2 |
| Housing Material: | CuZn |
| Housing Plating: | Ni |
| Housing Color: | silver |
| Attachment Material: | CuZn |
| Attachment Plating: | Cu/Ni |
| Shielding Material: | CuZn, plating: Ni |
| O-Ring Material: | FKM |

Cable Data

| | |
|--------------------------|----------------------|
| Insulated Wire Diameter: | 1.75 mm ² |
|--------------------------|----------------------|

Approvals

| | |
|----------|---------|
| UL-File: | E497237 |
| UL: | cULus |

Safety & Environmental Compliance

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

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 |
|-----------|--------------------|--------------|
| 934980401 | RKF6S 5K-033/0,2 M | 0.2 m |
| 934980405 | RKF6S 5K-033/0,5 M | 0.5 m |

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