lumbergautomation
A BELDEN BRAND



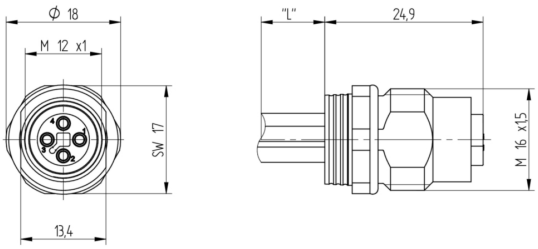
Product: RKF6S 5K-033

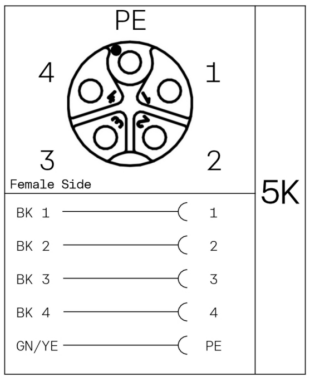
M12 Power | Receptacle | Female Front Mount → Open End, 4-pin K-code, (1.50 mm²) 16 AWG, 630 V / 16 A

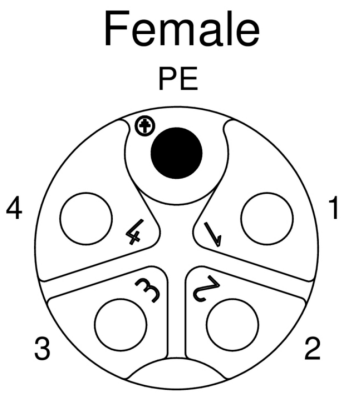
Product Description

M12 Power | Receptacle | M12 Female Front Mount, #Contacts: 4, K-code → Open End | Hookup Wire(s): mPPE; 1.50 mm² (16 AWG) | 630 V / 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

Side 1 Product Sub Family:	M12 Power
Brand:	Lumberg Automation
Connector Type:	Receptacle
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Receptacle | M12 Female | Front Mount
Number of Pins:	5 (4+PE)
Coding, Side 1:	K
Shielding Type:	Shielded
Attachment Type:	Coupling Nut
Voltage Rating:	630 V
Rated Voltage (UL):	600 V
Rated Impulse Voltage:	6.0 kV
Operating Voltage:	600 V AC/DC
Current Rating:	16 A
Rated Current (UL)*:	16 A
Side 1 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
Side 1 Design Standard:	IEC 61076-2-111
Side 1 Pollution Degree:	3 acc. to IEC 60664-1
Clearance / Creepage Distance:	IEC 60664-1 (2020-05)
Overvoltage Category:	III acc. to IEC 60664-1

Materials

Contact Base Material:	Copper Alloy (CuNi)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color:	Blue
Flammability Class (Contact Bearer):	UL 94 V-2
Housing Material:	Copper Alloy (CuZn)
Housing Plating:	Nickel (Ni)
Housing Color:	Siliver
Attachment Material:	Copper Alloy (CuZn)
Attachment Plating:	Nickel (Ni)
Shielding Material:	CuZn, plating: Ni
O-Ring Material:	Fluoroelastomer (FKM)
Gasket Material:	Fluoroelastomer (FKM) | Panel Gasket,Included with packaging

Additional Technical Data

Mount Type:	M16x1,5
Accessories to Order Separately:	Panel Nut: ID: 25049 Name: RSKFM 16

Cable Data

Cable Number:	033
Conductor Size:	1.50 mm²
Number of Wires:	5
Conductor Material:	Cu
Wire Insulation Material:	Modified Polyphenylene Ether (mPPE)
Insulated Wire Diameter:	Ø 2.25 mm | 0.089"
UL Cable Type:	AWM Style 11028
Flammability Class (Cable Jacket):	UL 1581 VW-1

Approvals

UL-File:	E497237
UL:	UL 2237; cULus

Safety & Environmental Compliance

RoHS Compliant:	Yes

Resistances

Halogenfree:	DIN VDE 0472 T.815
Oil Resistance:	Yes

Notes

Note Derating:	* Notice derating
Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note:	1. Do not connect or disconnect under load.
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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