lumbergautomation
A BELDEN BRAND

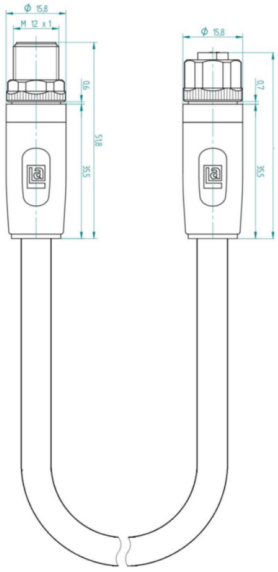
Product: RSTS 5K-RKTS 5K-910

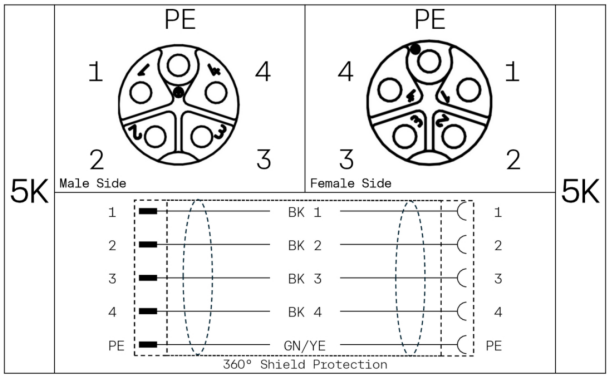
M12 Power | Cordset | Male Straight → Female Straight, 5-pin K-code, PUR (1.50 mm²) 16 AWG, 630 V / 16 A, Shielded

Product Description

M12 Power | Double-Ended Cordset | M12 Male Straight, #Contacts 5, K-code → M12 Female Straight, #Contacts 5, K-code | Cable: Black PUR; 1.50 mm² (16 AWG) | 630 V / 16 A | 360° Shield Protection

Technical Drawing





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 Type:	Shielded
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

Technical Data Side 1

Side 1 Product Sub Family:	M12 Power
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	Molded | M12 Male | Straight
Attachment Type:	Coupling Screw
Number of Pins:	5 (4+PE)
Coding, Side 1:	K
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
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
Molded Body Material:	Thermoplastic Elastomer (TPE)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Copper Alloy (CuZn)
Attachment Plating:	Nickel (Ni)
Shielding Material:	CuZn, plating: Ni
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	1. Do not connect or disconnect under load.

Cable Data

Cable Number:	910
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 Mio, max. 50 m/s²
Cycles (Torsion):	> 5 Mio @ ± 30 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 10.4 | 0.409"

Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 2.35 mm | 0.092 "
Inner Jacket:	TPE-O
Overall Shield (Cable):	Tinned Copper Braided Screen
Ambient Temperature (Fixed Installation):	- 40° C to + 80° C
Ambient Temperature (Flex Installation):	- 30° C to + 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 Style 20939
Flammability Class (Cable Jacket):	VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1
Cable Characteristics:	Flexibility: Excellent | Abrasion Resistance: Excellent | Oil & Chemical Resistance: Excellent | UV Resistance: Good to excellent | Low Temp Performance: Excellent (flexible to -40°C) | Flame Retardance: VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 UL VW-1, CSA FT1 | Halogen-Free: Yes, DIN VDE 0472 T.815 | Mechanical Durability: High (resists impact, tear, and flex) | Environmental Suitability: Outdoor, oily, wet, or rough environments

Technical Data Side 2

Side 2 Product Sub Family:	M12 Power
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	Molded | M12 Female | 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, IP69k
Design Standard, Side 2:	IEC 61076-2-111
Pollution Degree, Side 2:	3 acc. to IEC 60664-1
Clearance / Creepage Distance, Side 2:	IEC 60664-1 (2020-05)
Overvoltage Category, Side 2:	III acc. to IEC 60664-1
Contact Base Material, Side 2:	Copper Alloy (CuNi)
Contact Plating, Side 2:	Copper over Gold (Cu/Au)
Contact Bearer Material, Side 2:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color, Side 2:	Blue
Flammability Class (Contact Bearer), Side 2:	UL 94 V-2
Molded Body Material, Side 2:	Thermoplastic Elastomer (TPE)
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Copper Alloy (CuZn)
Attachment Plating, Side 2:	Nickel (Ni)
Shielding Material, Side 2:	CuZn, plating: Ni
O-Ring Material, Side 2:	Fluoroelastomer (FKM)
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight
Note, Side 2:	1. Do not connect or disconnect under load.

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

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 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
934853159	RSTS 5K-RKTS 5K-910/0,6 M	0.6 m
16404	RSTS 5K-RKTS 5K-910/1 M	1 m
934853117	RSTS 5K-RKTS 5K-910/2 M	2 m
20668	RSTS 5K-RKTS 5K-910/2,3 M	2.3 m
934853162	RSTS 5K-RKTS 5K-910/12,5 M	12.5 m
20667	RSTS 5K-RKTS 5K-910/2,8 M	2.8 m
20669	RSTS 5K-RKTS 5K-910/3 M	3 m
530020669	RSTS 5K-RKTS 5K-910/3 M	3 m
934853160	RSTS 5K-RKTS 5K-910/3,5 M	3.5 m
20670	RSTS 5K-RKTS 5K-910/3,7 M	3.7 m
20671	RSTS 5K-RKTS 5K-910/4 M	4 m
934853118	RSTS 5K-RKTS 5K-910/5 M	5 m
21074	RSTS 5K-RKTS 5K-910/6 M	6 m
20672	RSTS 5K-RKTS 5K-910/6,5 M	6.5 m
934853161	RSTS 5K-RKTS 5K-910/7,5 M	7.5 m
21075	RSTS 5K-RKTS 5K-910/9 M	9 m
934853119	RSTS 5K-RKTS 5K-910/10 M	10 m

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