

Product: [RST 5K-RKT 5K-1037](#) 



M12 to M12 cordset, Power Rail Applications, LZNH black cable, unshielded, male to female, straight, K-coded, 5-Pin (4+PE), 5x1.5 mm²

Product Description

M12 to M12 cordset, Power Rail Applications, LZNH black cable, unshielded, AWM: tbd, male to female, straight, K-coded, 5-Pin (4+PE), 5x1.5 mm², 600 V AC/DC operating voltage, rated current 16 A, -40 °C ... 125 °C (operating temp.), suited for IP65, IP67 environment, IEC 60664-1 (2020-05)

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:	Belden
Connector Type:	Cordset, double ended
Connector Sub Type:	Power RAIL
Shielding Type:	Unshielded
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)*:	-

Technical Data Side 1

Side 1 Product Sub Family:	M12 Power RAIL
Side 1 Type of Contact/Gender:	male
Connector Design:	straight
Attachment Type:	Coupling Screw
Number of Pins:	5(4+PE)
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	-40 °C ... 125 °C, notice derating
Protection Degree / IP Rating**:	IP65, IP67
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:	CuNi

Side 1 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:	black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Cu/Ni
O-Ring Material:	FKM
Fastening Torque (Contact Screw):	M 12x1: (60-65) Ncm, hand-tight

Cable Data

Cable Number:	1037
Conductor Size:	1.50 mm ²
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 10 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	-
Cycles (Torsion):	-
Conductor Material:	Cu
Cable Jacket Material:	LSZH
Cable Jacket Color:	black
Cable Diameter D:	ø 8.6 ±0,2
Wire Insulation Material:	LSZH
Insulated Wire Diameter:	ø 2.25 mm
Ambient Temperature (Fixed Installation short-term 100h):	-30 °C ... 90 °C
UL Cable Type:	AWM: tbd
Flammability Class (Cable Jacket):	UL 1685 FT4, IEEE 1202

Technical Data Side 2

Side 2 Product Sub Family:	M12 Power
Side 2 Type of Contact/Gender:	female
Connector Design, Side 2:	straight
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 ... 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 IEC 60664-1
Overvoltage Category, Side 2:	III acc. to IEC 60664-1
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:	black
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: (60-65) Ncm, hand-tight

Approvals

UL-File:	-
VDE:	-

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	DIN VDE 0472 T.815, IEC 60754-1
Oil Resistance:	HD 22.10 Appendix A, DIN EN 60811-404

Notes

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.

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