



Product: [RKT 5K-1033](#)

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

Product Description

M12 Single-Ended Cordset, Power Rail Applications, LZNH black cable, unshielded, AWM: 21408, 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

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:	Belden
Connector Type:	Cordset, single ended
Type of Contact / Gender:	female
Connector Design:	straight
Number of Pins:	5(4+PE)
Shielding:	Unshielded
Attachment Type:	Coupling Nut
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)*:	-
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
Design Standard:	IEC 61076-2-111
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:	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:	black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Cu/Ni
O-Ring Material:	FKM

Additional Technical Data

Fastening Torque (Contact Screw):	M 12x1: (60-65) Ncm, hand-tight
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Cable Data

Cable Number:	1033
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):	-
Cycles (Torsion):	-
Conductor material:	Cu
Cable Jacket Material:	LSZH
Cable Jacket Color:	black
Cable Diameter D:	ø 7.6 ±0,2
Wire Insulation Material:	XPLO
Insulated Wire Diameter:	ø 2.25 mm
Ambient Temperature (Fixed Installation short-term 100h):	-40 °C ... 120 °C (UL AWM 105°C)
UL Cable Type:	AWM: 21408
Flammability Class (Cable Jacket):	UL VW-1, CSA FT1, EN 50306-4 Table 1, Category MM, EN 45545-2 Hazard Level HL3

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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