lumbergautomation
A BELDEN BRAND

Product: RKWT 4K-1028

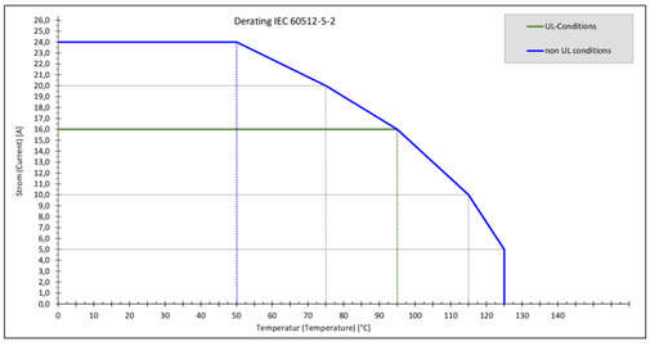


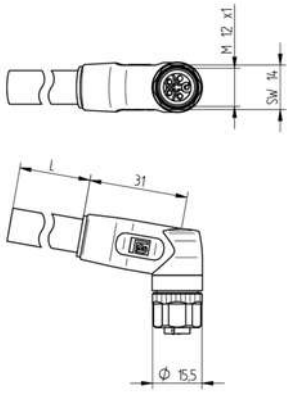
M12 Power Single-Ended Cordset: Female, angled, 4-pin(3+PE), K-coded, blue body, 600 V AC/DC, 20 A; PUR black cable, ca. 2,5mm²

Product Description

M12 Power Single-Ended Cordset: Female, angled, 4-pin(3+PE), K-coded, blue body, 600 V AC/DC, 20 A; PUR black cable, 2.5 mm²

Technical Drawing





Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	PE
black 1	black 2	black 3	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:	angled
Number of Pins:	4
Coding:	K
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*:	24 A
Rated Current (UL)*:	20 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
Molded Body Material:	TPE
Molded Body Color:	blue
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

Cable Data

Cable Number:	1028
Conductor Size:	2.5 mm²
Conductor Resistance:	≤ 8.2 Ω/km (at 20 °C)
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Cycles (Bending):	> 10 M
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 8.6 ±0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 2.55 mm
Overall Shield (Cable):	-
Ambient Temperature (Fixed Installation):	-40 °C to +90 °C (UL AWM 80°C)
Ambient Temperature (Flex Installation):	-30 °C to +90 °C (UL AWM 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: 20939
Flammability Class (Cable Jacket):	VDE 0482-332-1-2, DIN EN 60332-1-2 / IEC 60332-1 / UL VW-1, CSA FT1

Approvals

UL-File:	E497237
UL:	UL 2237; cULus
VDE:	No

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

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
934850169	RKWT 4K-1028/3 M
934850170	RKWT 4K-1028/5 M
934850171	RKWT 4K-1028/10 M
934850172	RKWT 4K-1028/15 M

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