



Product: RSWTS 5K-RKTS 5K-1023 ☑

M12 to M12 cordset, Industrial Power Applications, PUR black cable, shielded, male to female, angled to straight, K-coded, 5-Pin (4+PE), 5x2.5 mm<sup>2</sup>

## **Product Description**

M12 to M12 cordset, Industrial Power Applications, PUR black cable, shielded, AWM: 20939, male to female, angled to straight, K-coded, 5-Pin (4+PE), 5x2.5 mm², 600 V AC/DC operating voltage, rated current 24 A (20 A UL pending), -40 °C ... 125 °C (operating temp.), suited for IP65, IP67, IP69K environment, IEC 60664-1 (2020-05), UL 2237; cULus

# **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
Shielding:	Shielded
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)*:	16 A

## **Technical Data Side 1**

Product Sub Family:	M12 Power
Type of Contact / Gender:	male
Connector Design:	angled
Attachment Type:	Coupling Screw
Number of Pins:	5(4+PE)
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, IP69K
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
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
Fastening Torque (Contact Screw):	M 12x1: (60-65) Ncm, hand-tight

# **Cable Data**

Cable Number:	1023
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:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 10.6 ±0,2
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 2.55 mm
Ambient Temperature (Fixed Installation):	-30 °C 80 °C
Ambient Temperature (Flex Installation):	-40 °C 125 °C
Ambient Temperature (Fixed Installation short-term 100h):	-40 °C 80 °C
Ambient Temperature (Drag Chain Inst):	-20 °C 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

# **Technical Data Side 2**

Product Sub Family, Side 2:	M12 Power
Type of Contact / Gender, Side 2:	female
Connector Design, Side 2:	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 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:	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
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:	E497237
UL:	UL 2237; cULus
VDE:	•

## Safety & Environmental Compliance

RoHS Compliant:	yes

### 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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