lumbergautomation
A BELDEN BRAND

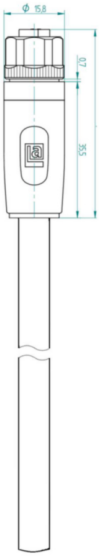
Product: RKT 4T-723

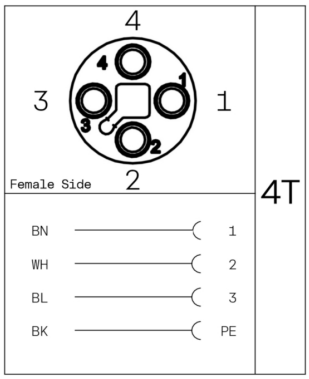
M12 Power | Cordset | Female Straight → Open End, 4-pin T-code, PUR (1.50 mm²) 16 AWG, 63 V / 16 A

Product Description

M12 Power | Single-Ended Cordset | M12 Female Straight, #Contacts 4, T-code → Open End | Cable: Black PUR; 1.50 mm² (16 AWG) | 63 V / 16 A

Technical Drawing





Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4
brown	white	blue	black

Technical Data

Product Family:	Power Connector
Side 1 Product Sub Family:	M12 Power
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended

Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Molded | M12 Female | Straight
Number of Pins:	4
Coding, Side 1:	T
Shielding Type:	Unshielded
Attachment Type:	Coupling Nut
Voltage Rating:	63 V
Rated Voltage (UL):	63 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	≤ 60 V AC/DC
Current Rating:	16 A
Rated Current (UL)*:	16 A
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

Materials

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:	Dark-Grey
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)
O-Ring Material:	Fluoroelastomer (FKM)

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	723
Conductor Size:	1.50 mm²
Conductor Resistance:	≤ 13.3 Ω/km
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 4 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 7.4 | 0.291"
Wire Insulation Material:	Polypropylene (PP)

Insulated Wire Diameter:	Ø 2.35 mm | 0.092"
Overall Shield (Cable):	Unshielded
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

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

Note Derating:	* Notice derating
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:	1. Do not connect or disconnect under load.
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
20376	RKT 4T-723/0,65 M	0.65 m
934849009	RKT 4T-723/2 M	2 m
934849898	RKT 4T-723/4 M	4 m
934849010	RKT 4T-723/5 M	5 m
934849011	RKT 4T-723/10 M	10 m
934849012	RKT 4T-723/15 M	15 m

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