

Product: [RSTS 4S-RKWTS 4S-1027](#)

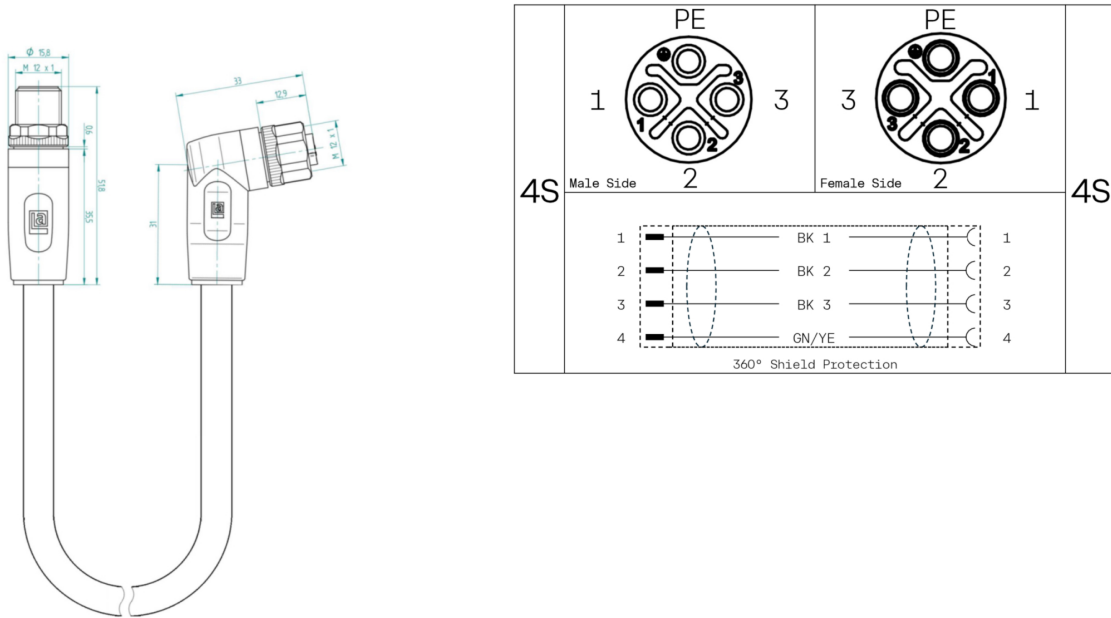


M12 Power | Cordset | Male Straight → Female Angled, 4-pin S-code, PUR (2.50 mm²) 14 AWG, 630 V / 24 A, Shielded

Product Description

M12 Power | Double-Ended Cordset | M12 Male Straight, #Contacts 4, S-code → M12 Female Angled, #Contacts 4, S-code | Cable: Black PUR; 2.50 mm² (14 AWG) | 630 V / 24 A | 360° Shield Protection

Technical Drawing



Technical Specifications

Face View Side 1

Pin 1	Pin 2	Pin 3	PE
black 1	black 2	black 3	green / yellow

Face View Side 2

Pin 1	Pin 2	Pin 3	PE
black 1	black 2	black 3	green / yellow

Product Description

Product Family:	Power Connector
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Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Shielded
Voltage Rating:	630 V
Rated Voltage (UL):	600 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	600 V AC/DC
Current Rating:	24 A
Rated Current (UL)*:	16 A (UL Certified); Product is designed to meet UL 20 A requirements, it is NOT certified yet; a UL 20 A certification process can be initiated upon special request based on a separate agreement with us.

Technical Data Side 1

Side 1 Product Sub Family:	M12 Power
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	Molded M12 Male Straight
Attachment Type:	Coupling Screw
Number of Pins:	4 (3+PE)
Coding, Side 1:	S
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
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:	Black
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)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	1027
Conductor Size:	2.5 mm ²
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Cycles (Bending):	> 10 Mio, max. 50 m/s ²
Cycles (Torsion):	> 5 Mio @ ± 30 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 9.4 0.370"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 2.55 mm 0.100 "

Overall Shield (Cable):	Tinned Copper Braided Screen
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: 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

Technical Data Side 2

Side 2 Product Sub Family:	M12 Power
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	Molded M12 Female Angled
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	4 (3+PE)
Coding, Side 2:	S
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 to + 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:	Copper Alloy (CuNi)
Contact Plating, Side 2:	Copper over Gold (Cu/Au)
Contact Bearer Material, Side 2:	Glass-filled Polybutylene Terephthalate (PBT GF)
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-2
Molded Body Material, Side 2:	Thermoplastic Elastomer (TPE)
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Copper Alloy (CuZn)
Attachment Plating, Side 2:	Nickel (Ni)
O-Ring Material, Side 2:	Fluoroelastomer (FKM)
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight
Note, Side 2:	1. Do not connect or disconnect under load.

Approvals

UL-File:	E497237
UL:	UL 2237; cULus
VDE:	-

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

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

Notes

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 Derating:	* Notice derating

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