lumbergautomation
A BELDEN BRAND



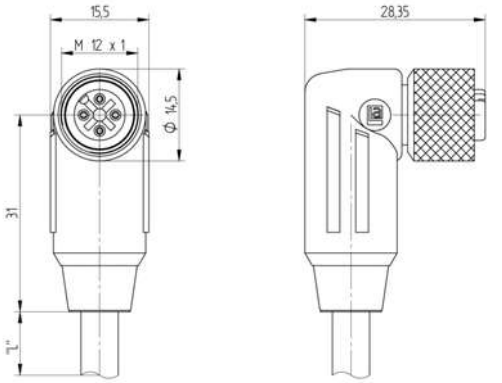
Product: RKWTS 4-288

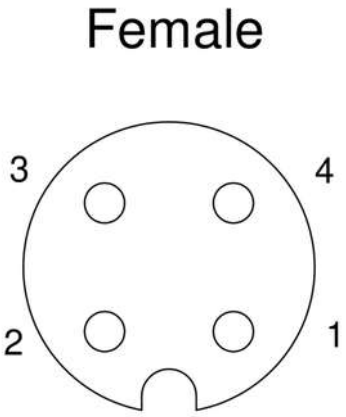
M12 Standard Sensor/Actuator Single-Ended Cordset: Female, angled, 4-pin, A-coded, shielded, orange body, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, 0.34 mm²

Product Description

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Technical Drawing





Technical Specifications

Face View

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

Technical Data

Product Family:	Sensor / Actuator Connectors
Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Angled
Number of Pins:	4
Coding:	A
Shielding:	Shielded
Attachment Type:	Coupling Nut
Rated Voltage:	60 V
Rated Voltage (UL):	250 V AC
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current:	4 A
Rated Current (UL):	4 A

Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation):	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Orange
Flammability Class (Molded Body):	UL 94 V-2
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	Housing: GD-Zn, nickel-plated
Shielding Material:	Sleeve: CuZn, tin-plated
O-Ring Material:	FKM, green

Additional Technical Data

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

Cable Data

Cable Number:	288
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 1 M @ ± 180 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 5.50 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 mm
Overall Shield (Cable):	Mesh wire
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
Cable Characteristics:	Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibilty

Approvals

UL-File:	E104696
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	only if mounted and locked in combination with Hirschmann / Lumberg Automation connector
Note Derating:	Notice derating
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description	Cable Length
8725	RKWTS 4-288/1 M	1 m
934703011	RKWTS 4-288/2 M	2 m
2482	RKWTS 4-288/3 M	3 m
934703014	RKWTS 4-288/5 M	5 m
934703015	RKWTS 4-288/6 M	6 m
934703009	RKWTS 4-288/10 M	10 m
934703010	RKWTS 4-288/15 M	15 m
934703012	RKWTS 4-288/20 M	20 m
8129	RKWTS 4-288/25 M	25 m
934703013	RKWTS 4-288/30 M	30 m
6778	RKWTS 4-288/35 M	35 m
5595	RKWTS 4-288/40 M	40 m
14911	RKWTS 4-288/45 M	45 m
8771	RKWTS 4-288/50 M	50 m
9276	RKWTS 4-288/60 M	60 m
15908	RKWTS 4-288/70 M	70 m
9424	RKWTS 4-288/100 M	100 m
15933	RKWTS 4-288/110 M	110 m
18341	RKWTS 4-288/125 M	125 m
13525	RKWTS 4-288/150 M	150 m
17582	RKWTS 4-288/180 M	180 m

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