lumbergautomation
A BELDEN BRAND



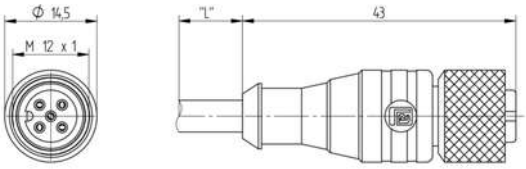
Product: RKT 5-228

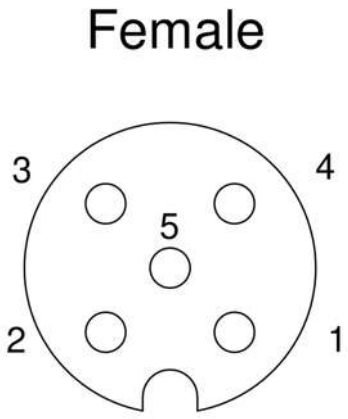
M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, A-coded, translucent body, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.50 mm²

Product Description

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, A-coded, translucent body, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.50 mm²

Technical Drawing





Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	green-yellow

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:	Straight
Number of Pins:	5
Coding:	A
Shielding:	Unshielded
Attachment Type:	Coupling Nut
Rated Voltage:	60 V
Rated Voltage (UL):	30 V AC/DC
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:	TPU
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	TPU
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	FKM, green

Additional Technical Data

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

Cable Data

Cable Number:	228
Conductor Size:	0.5 mm²
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black matt similarly RAL 9005
Cable Diameter D:	ø 5.40 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.50 ± 0.05 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C - + 105 °C (UL: + 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:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Free of lacquer wetting disturbing substances; Coldness Flexibilty

Approvals

UL-File:	E315587
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:	IEC 60811:404

Notes

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

Variants

Item #	Item Description	Cable Length	Rated Current	Contact Bearer Color
414	RKT 5-228/60 M	60 m	4 A	Orange
5888	RKT 5-228/4 M	4 m	4 A	Orange
11373	RKT 5-228/2 M	2 m	4 A	Orange
11374	RKT 5-228/5 M	5 m	4 A	Orange
17046	RKT 5-228/10 M	10 m	4 A	Orange
43657	RKT 5-228/25 M	25 m	4 A	Orange
44194	RKT 5-228/1 M	1 m	4 A	Orange
44382	RKT 5-228/15 M	15 m	4 A	Orange
53594	RKT 5-228/3 M	3 m	4 A	Orange
57149	RKT 5-228/30 M	30 m	4 A	Orange
57150	RKT 5-228/50 M	50 m	4 A	Orange
57889	RKT 5-228/7 M	7 m	4 A	Orange
71454	RKT 5-228/0,5 M	0.5 m	4 A	Orange
75953	RKT 5-228/40 M	40 m	4 A	Orange
89603	RKT 5-228/2,5 M	2.5 m	4 A	Orange
95343	RKT 5-228/0,3 M	0.3 m	4 A	Orange
934636754	RKT 5-228/6 M	6 m	4 A	Orange
13125	RKT 5-228/0,2 M	0.2 m	4 A	Orange
49868	RKT 5-228/0,6 M	0.6 m	4 A	Orange
327	RKT 5-228/1,5 M	1.5 m	4 A	Orange

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