



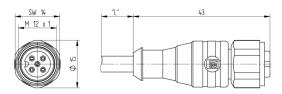
Product: RKTN 5-228 ☑

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

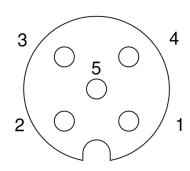
Product Description

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



Female



Technical Specifications

Face View

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

Technical Data

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: 90 V AC/DC Rated Impulse Voltage: 1.5 kV Operating Voltage: 50 V AC / 60 V DC Rated Current*: 4 A		
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: 01 V AC/DC Rated Impulse Voltage: 5 Rated Voltage: 50 V AC / 60 V DC Rated Current*: 4 A	Product Family:	Sensor / Actuator Connectors
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	Product Sub Family:	M12 Standard
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: Sto V AC / 60 V DC Rated Current*: 4 A	Brand:	Lumberg Automation
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	Connector Type:	Cordset, single ended
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	Type of Contact / Gender:	Female
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	Connector Design:	Straight
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	Number of Pins:	5
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	Coding:	A
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	Shielding:	Unshielded
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	Attachment Type:	Coupling Nut
Rated Impulse Voltage: 1.5 kV Operating Voltage: 50 V AC / 60 V DC Rated Current*: 4 A	Rated Voltage:	60 V
Operating Voltage: 50 V AC / 60 V DC Rated Current*: 4 A	Rated Voltage (UL):	30 V AC/DC
Rated Current*: 4 A	Rated Impulse Voltage:	1.5 kV
	Operating Voltage:	50 V AC / 60 V DC
Rated Current (UL)*: 4 A	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):	nax. + 50 °C	
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K	
Design Standard:	Pin assignment deviating from IEC 61076-2-101 and IEC 61140	
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:	Stainless Steel
O-Ring Material:	FKM, green

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
rasicining rorque (Attacriment).	W 12A1. (30-00) Notif, Halid-tight

Cable Data

Cable Number:	228
Conductor Size:	0.5 mm ²
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	>5xD
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 flexibility

Approvals

UL-File:	E315587
UL:	UL 2238; cURus

Safety & Environmental Compliance

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
16072	RKTN 5-228/3 M	3 m	4 A

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