HIRSCHMANN
A BELDEN BRAND

Product: RST 5-3-VAD 1F-4-3-241

DIN EN 175301-803-A, Cordset, double ended: M12, Male, Straight, 3-Pole, to a, Form A, Female, Angled, 2+2PE, Yellow LED with Recovery Diode: Cable, PUR, orange, 3x0.50 mm²

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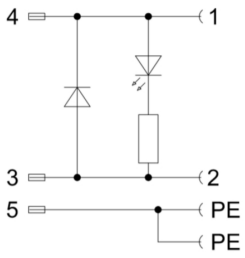
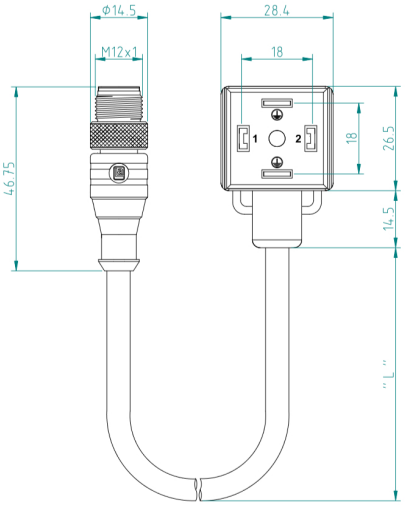
Technical Drawing





Technical Specifications

Product Description

Product Family:	Valve Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Voltage Rating:	24 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	24 V DC
Current Rating:	4 A

Technical Data Side 1

Side 1 Product Sub Family:	M12
Side 1 Type of Contact/Gender:	Male

Connector Design:	Molded | M12 Male | Straight
Attachment Type:	Coupling Screw
Number of Pins:	3
Coding, Side 1:	A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65
Side 1 Design Standard:	IEC 61076-2-101
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	CuSn
Side 1 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:	Grey Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Ni-Plated
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	241
Conductor Size:	0.5 mm²
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 2 M
Welding Resistance:	Welding spark resistant
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	orange
Cable Diameter D:	ø 5.0 ± 0.2 mm
Wire Insulation Material:	HDPE
Insulated Wire Diameter:	ø 1.50 mm
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 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Mainly plasticizer diffusion free; Good microbes and hydrolysis resistance; Exclusion of PVC and silicone; Seatwater resistance; Coldness flexibility

Technical Data Side 2

Side 2 Product Sub Family:	VAD
Side 2 Type of Contact/Gender:	Female
Connector Design, Side 2:	Molded | Form A | Angled
Attachment Type, Side 2:	Central Screw
Number of Pins, Side 2:	2+2PE
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 5 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	&lt50
Ambient Temperature (Operation), Side 2*:	-25°C to +80°C

Protection Degree / IP Rating, Side 2**:	IP65
Design Standard, Side 2:	DIN EN 175301-803-A
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuZn
Contact Plating, Side 2:	Cu/Ni,Sn
Contact Bearer Material, Side 2:	PBT
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Transluscent
Attachment Material, Side 2:	Steel, Philips combi slot
O-Ring Material, Side 2:	Molded Integrated Gasket
Protection Circuitry, Side 2:	Recovery Diode (FRD)
Function Indicator, Side 2:	Yellow LED
Protective Circuit, Side 2:	Recovery Diode (FRD) w/ LED Indicator
Fastening Torque (Attachment), Side 2:	(50-60) Ncm

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Halogenfree:	no
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
Update and Revision:	Revision Number: 0.67 Revision Date: 06-24-2026

Variants

Item #	Item Description	Cable Length
11927	RST 5-3-VAD 1F-4-3-241/1 M	1 m
46905	RST 5-3-VAD 1F-4-3-241	0.3 m
11929	RST 5-3-VAD 1F-4-3-241/2 M	2 m
10829	RST 5-3-VAD 1F-4-3-241/3 M	3 m
46906	RST 5-3-VAD 1F-4-3-241/5 M	5 m

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