



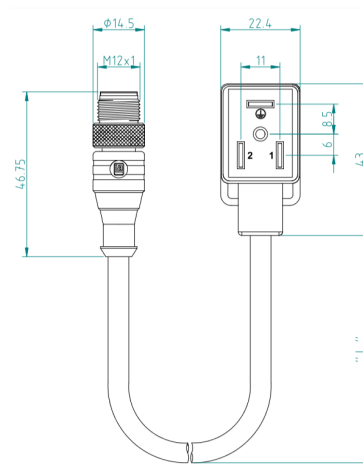
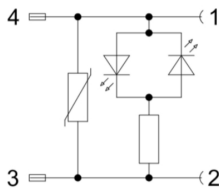
Product: [RST 5-3-VB 1A-1-2-241](#)

INDUSTRIAL-B (NEMA), Cordset, double ended: M12, Male, Straight, 3-Pole, to a, Form B, Female, Angled, 2+PE (PE across cable outlet), Yellow LED with Varistor: Cable, PUR, orange, 3x0.50 mm²

Product Description

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Technical Drawing



Technical Specifications

Product Description

Product Family:	Valve Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	24 V
Operating Voltage:	24 V AC/DC
Rated Current*:	4 A

Technical Data Side 1

Product Sub Family:	M12
Type of Contact / Gender:	Male
Connector Design:	Straight

Attachment Type:	Coupling Screw
Number of Pins:	3
Coding:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65
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)
Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Orange
Molded Body Material:	TPU
Molded Body Color:	Grey Translucent
Attachment Material:	CuZn
Attachment Plating:	Ni-Plated
Function Indicator:	Yellow LED
Protective Circuit:	Varistor
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

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
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

Product Sub Family, Side 2:	VB Industrial Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Angled
Attachment Type, Side 2:	Central Screw
Number of Pins, Side 2:	2+PE (PE across cable outlet)
Coding, Side 2:	B
Contact Resistance, Side 2:	≤ 5 mOhm
Insulation Resistance, Side 2:	> 10 ⁹ Ohm
Mating Cycles, Side 2:	50
Ambient Temperature (Operation), Side 2*:	-25°C to +80°C
Protection Degree / IP Rating, Side 2**:	IP65
Design Standard, Side 2:	INDUSTRIAL-B (NEMA)
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
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
Fastening Torque (Attachment), Side 2:	(50-60) Ncm

Safety & Environmental Compliance

RoHS Compliant:	yes
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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

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