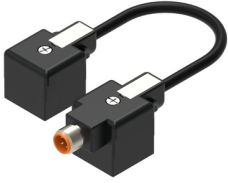


Product: [VAD M12 1B-VAD 1B-1-3-226](#)

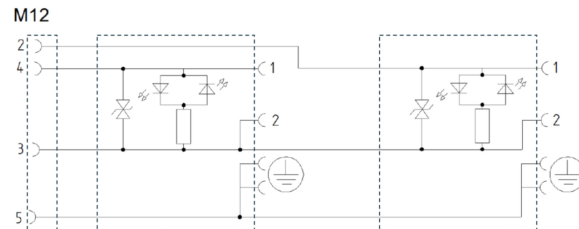
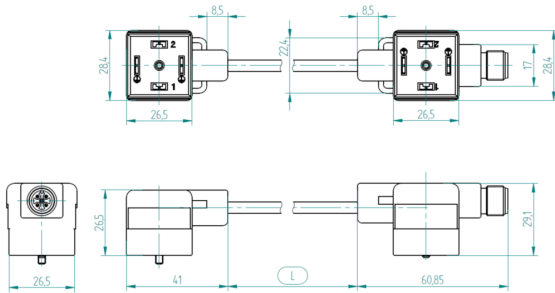


Dual Valve, Form A | M12- Male 0° | #Contacts: 3 | 2xForm A - Female 90° | #Contacts: 2+2 PE | Suppression diode (TVS) & yellow LED | 24 V | Cable: Black (PUR); 0.50 mm²; IEC | cURus

Product Description

Form A, Dual Valve Adaptor | M12- Male Straight | #Contacts: 3, A-coded | 2 x Form A - Female Angled Cordset | #Contacts: 2+2 PE | Suppression diode (TVS) & yellow LED | 24 V / 4 A | Cable: Black PUR Jacket; 3x0.50 mm² (20 AWG); IEC

Technical Drawing



Technical Specifications

Face View Side 1

Pin 2	Pin 3	Pin 4	Pin 5
brown	blue	brown	green-yellow

Face View Side 2

Pin 1	Pin 2
brown	blue

Product Description

Product Family:	Valve Connectors
Brand:	Lumberg Automation
Shielding:	Unshielded
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V AC/DC
Rated Current*:	4 A

Technical Data Side 1

Product Sub Family:	Dual Valve Adapter
Type of Contact / Gender:	Pin Contact / Male, M12 Socket Contact / Female, Valve
Connector Design:	M12 Male 5 Pole 0°
Attachment Type:	Fixed Screw, M12 Exit Central Screw Valve
Number of Pins:	3, M12 Exit 2+2 PE, Valve

Coding:	A
Contact Resistance:	≤ 5 mOhm, M12 Exit Ohm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Conductor Cross Section:	0.50 mm²
Ambient Temperature (Operation)*:	- 40 °C - + 80 °C
Temperature Range (Gasket):	-25°C to +80°C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	DIN EN 175301-803-A, ISO 4400
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper Alloy (CuSn), M12 Brass (CuZn), Valve
Contact Plating:	Gold over Copper (Cu/Au), M12 Copper over Tin (Cu/Sn), Valve
Contact Bearer Material:	Thermoplastic Polyurethane (TPU), M12 Glass-filled Polyamides (PA GF), Valve
Contact Bearer Color:	Black, M12 Black, Valve
Flammability Class (Contact Bearer):	UL 94 HB, M12 UL 94 V-0, Valve
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Grey Translucent
Flammability Class (Molded Body):	UL 94 HB
Housing Material:	Brass (CuZn), M12 Exit
Housing Plating:	Nickel (Ni), M12 Exit
Housing Color:	Metallic, M12 Translucent, Valve
Attachment Material:	Brass (CuZn), M12 Steel, Philips combi slot, Valve
Gasket Material:	Molded Integrated Gasket
Protection Circuitry:	Suppression diode (TVS)
Protective Circuit:	Suppression diode (TVS)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	226
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):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 4.6 mm [0.181]"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.50 mm [0.06"]
Ambient Temperature (Fixed Installation):	- 50 °C to + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C to + 105 °C (UL: + 80 °C)
Ambient Temperature (Drag Chain Inst):	- 25 °C to + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2

Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -40°C) Flame Retardance: Varies Halogen-Free: Yes Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments
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Technical Data Side 2

Product Sub Family, Side 2:	Dual Valve
Type of Contact / Gender, Side 2:	Socket Contact / Female
Connector Design, Side 2:	Dual Form A Female 90° 2+2PE Pole
Attachment Type, Side 2:	Central Screw
Number of Pins, Side 2:	2+2 PE
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 50
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 80 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Design Standard, Side 2:	DIN EN 175301-803-A, ISO 4400
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance, Side 2:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Brass (CuZn)
Contact Plating, Side 2:	Copper over Tin (Cu/Sn)
Contact Bearer Material, Side 2:	Glass-filled Polyamides (PA GF)
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	Thermoplastic Polyurethane (TPU)
Molded Body Color, Side 2:	Grey Translucent
Flammability Class (Molded Body), Side 2:	UL 94 HB
Housing Color, Side 2:	Translucent
Attachment Material, Side 2:	Steel, Philips combi slot
Protection Circuitry, Side 2:	Suppression diode (TVS)
Function Indicator, Side 2:	Yellow LED
Protective Circuit, Side 2:	Suppression diode (TVS)
Fastening Torque (Attachment), Side 2:	(50-60) Ncm
Note, Side 2:	1. Do not connect or disconnect under load.

Approvals

VDE:	Yes
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Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note Derating:	Notice derating
Update and Revision:	Revision Number: 0.10 Revision Date: 07-31-2025

Variants

Item #	Item Description	Cable Length
55338	VAD M12 1B-VAD 1B-1-3-226/0,4 M	0.4 m
16452	VAD M12 1B-VAD 1B-1-3-226/0,15 M	

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