



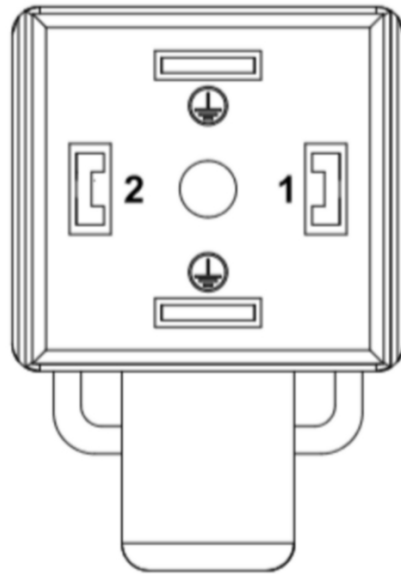
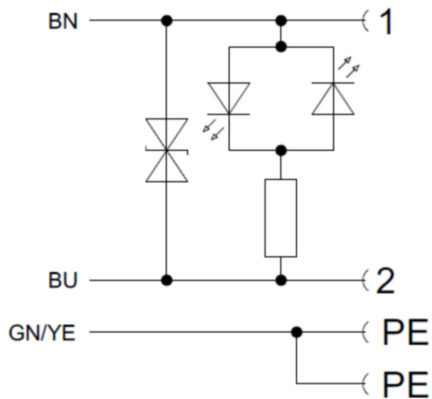
Product: [VAD 1B-1-3-226](#) 

Form A - Female 90° | #Contacts: 2+2 PE | Suppressor diode (TVS) & ye LED
| 24 V | Cable: Black (PUR); 0.50 mm²; IEC

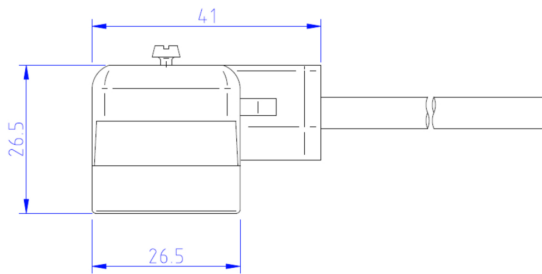
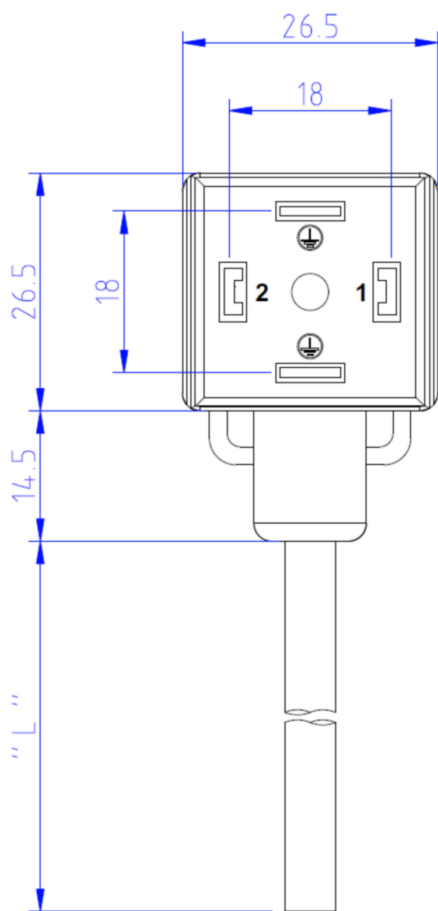
Product Description

Form A - Singled-Ended Female Angled Cordset | #Contacts: 2+2 PE | Suppressor diode (TVS) & yellow LED | 24 V / 4 A | Cable: Black PUR Jacket; 3x0.50 mm² (20 AWG); IEC

Technical Drawing



1 = BN
2 = BU
PE = GN/YE



Technical Specifications

Product Life Cycle

Life Cycle:	Active - Product is available
Availability:	Active

Technical Data

Product Family:	Valve Connectors
Product Sub Family:	VAD
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Socket Contact / Female
Connector Design:	Angled (90°) Body
Number of Pins:	2+2 PE
Coding:	A
Shielding:	Unshielded
Attachment Type:	Central Screw
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	24 V AC/DC
Rated Current*:	4 A
Contact Resistance:	≤ 5 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 50
Conductor Cross Section:	0.50 mm ²
Ambient Temperature (Operation)*:	- 25 °C - + 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)

Materials

Contact Base Material:	Brass (CuZn)
Contact Plating:	Copper Nickel Alloy (Cu/Ni,Sn)
Contact Bearer Material:	Polybutylene terephthalate (PBT)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Transluscent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Molded Integrated Gasket

Protection Circuitry

Function Indicator:	Yellow LED
Protective Circuit:	Suppressor diode (TVS) & Function Indicator (LED)

Additional Technical Data

Fastening Torque (Attachment):	(50-60) Ncm
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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 mio
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)
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:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility; Free of lacquer wetting disturbing substances

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	*IP Rating test performed by Belden with Belden Connectors only

Variants

Item #	Item Description	Cable Length	Replaced By
2085	VAD 1B-1-3-226/1 M	1 m	ID: 8084 Name: GAN22LU-S24-2260100-1UD
43392	VAD 1B-1-3-226/3 M	3 m	ID: 934889037 Name: GAN22LU-S24-2260300-1UC
43840	VAD 1B-1-3-226/10 M	10 m	ID: 934889039 Name: GAN22LU-S24-2261000-1UB

43841	VAD 1B-1-3-226/2 M	2 m	ID: 934889036 Name: GAN22LU-S24-2260200-1UC
43842	VAD 1B-1-3-226/5 M	5 m	ID: 934889038 Name: GAN22LU-S24-2260500-1UC
44783	VAD 1B-1-3-226/15 M	15 m	Name: GAN22LU-S24-2261500-1UB
23640	VAD 1B-1-3-226/20 M	20 m	Name: GAN22LU-S24-2262000-1UA

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