



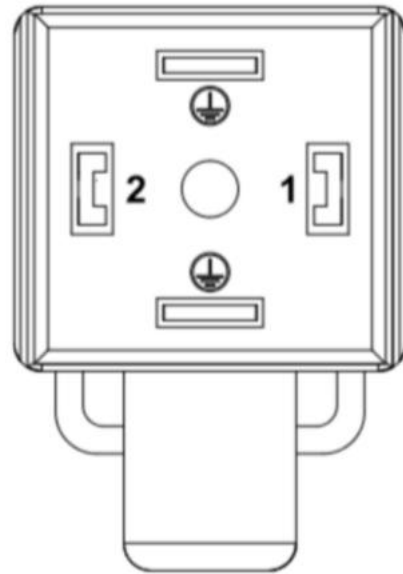
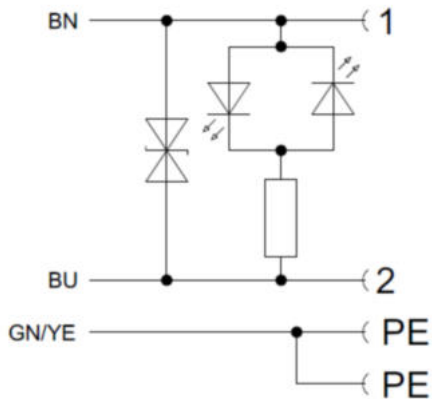
**Product:** [VAD 1B-1-3-212](#) 

VAD - Molded Female Cordset, Form A, Contacts: 2+2PE, with Suppressor Diode (TVS) and YE LED, 24 V | 4 A, IP67; PVC Black, 3x0.50mm<sup>2</sup> (20AWG)

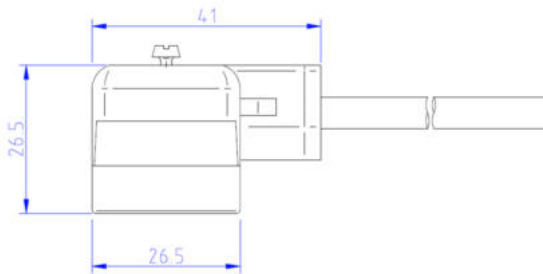
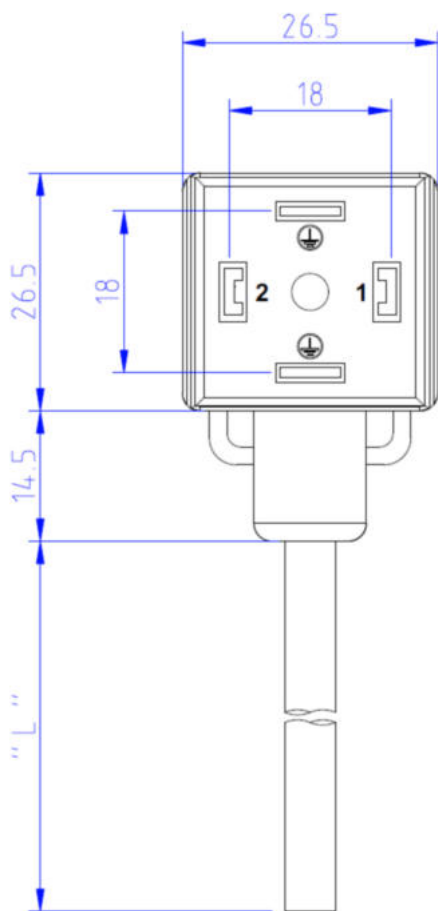
#### Product Description

175301-803-A (DIN 43650-A): Single-Ended Female Cordset, Contacts: 2+2PE, with Suppressor Diode (TVS) and Yellow LED, 24 V | 4 A, IP67; Cable: PVC Black, IEC, 3x0.50mm<sup>2</sup> (20AWG)

#### Technical Drawing



1 = BN  
2 = BU  
PE = GN/YE



## Technical Specifications

### Product Life Cycle

Availability:	Not recommended for new designs
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### Technical Data

Product Family:	Valve Connectors
Product Sub Family:	VAD
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Angled
Number of Pins:	2+2PE
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 <sup>9</sup> Ohm
Mating Cycles:	max. 50
Ambient Temperature (Operation)*:	-25°C to +80°C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	DIN EN 175301-803-A
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 Plating:	Cu/Ni,Sn
Contact Bearer Material:	PBT
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	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)

Additional Technical Data

Fastening Torque (Attachment):	(50-60) Ncm
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Cable Data

Cable Number:	212
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
Conductor material:	Cu
Cable Jacket Material:	PVC
Cable Jacket Color:	black
Cable Diameter D:	ø 5.0 ± 0.2 mm
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 1.70 mm
Ambient Temperature (Fixed Installation):	- 40 °C - + 70 °C
Ambient Temperature (Flex Installation):	+ 5 °C - + 70 °C
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Free of lacquer wetting disturbing substances; Exclusion of silicone

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	no
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
12154	VAD 1B-1-3-212/2 M	2 m	ID: 934889033 Name: GAN22LU-S24-2120200-1UC
12155	VAD 1B-1-3-212/5 M	5 m	ID: 934889034 Name: GAN22LU-S24-2120500-1UC
46924	VAD 1B-1-3-212/10 M	10 m	ID: 934889035 Name: GAN22LU-S24-2121000-1UB
13246	VAD 1B-1-3-212/15 M	15 m	Name: GAN22LU-S24-2121500-1UB

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