



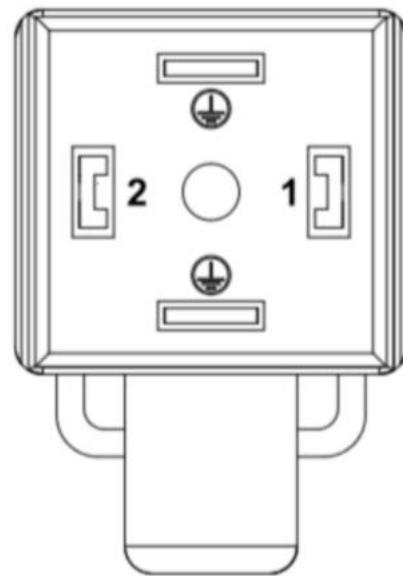
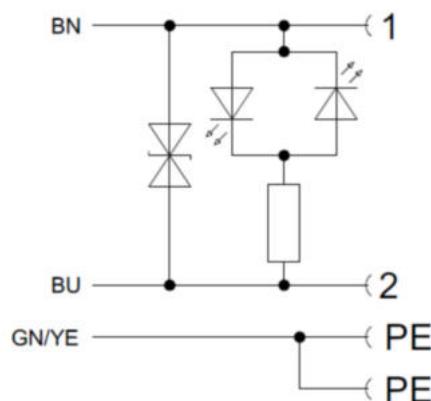
**Product:** [VAD 1B-1-3-226](#)

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

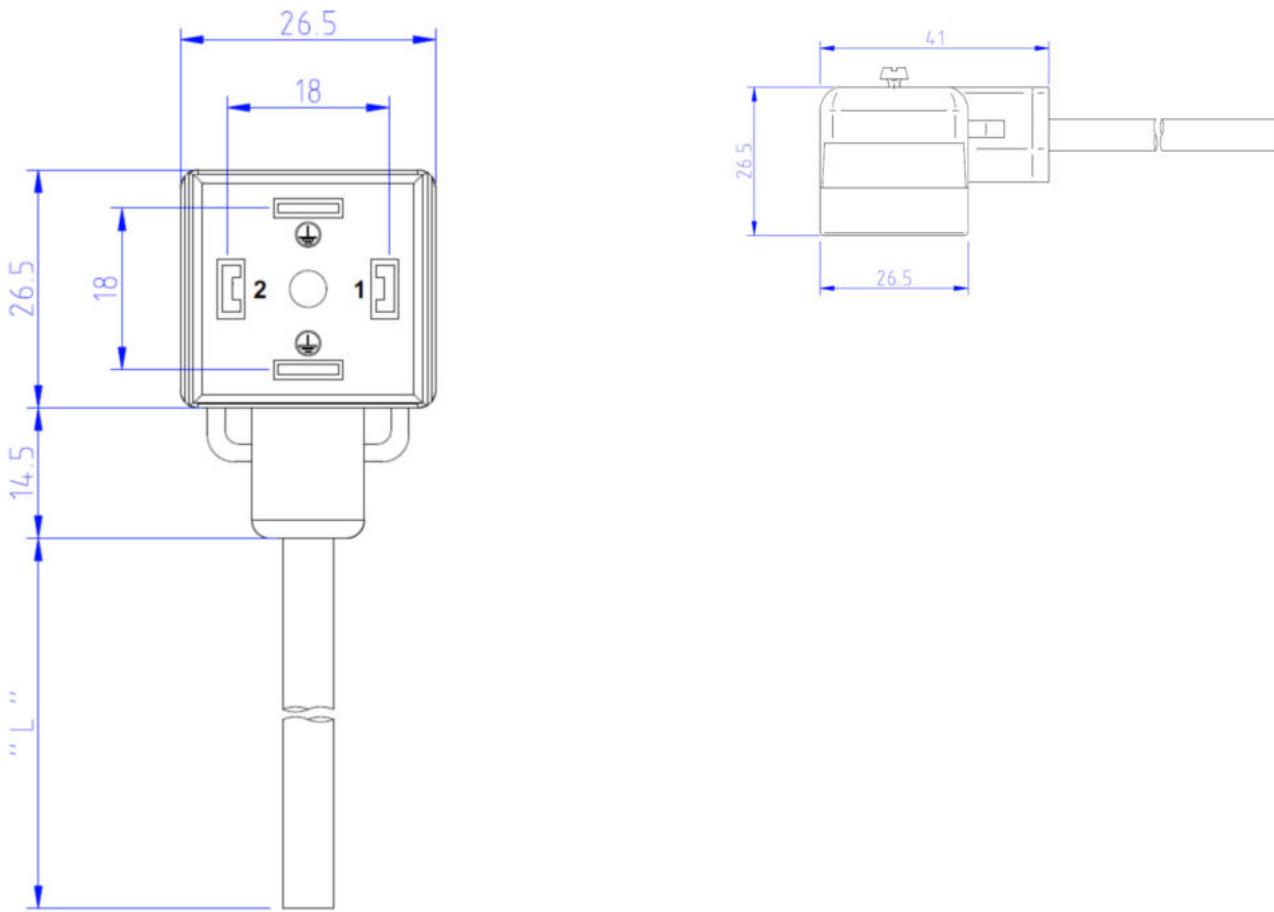
**Product Description**

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: PUR 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 Base Material:	CuZn
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:	226
Conductor Size:	0.5 mm <sup>2</sup>
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:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 4.6 ± 0.2 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.50 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C - + 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:	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
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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