



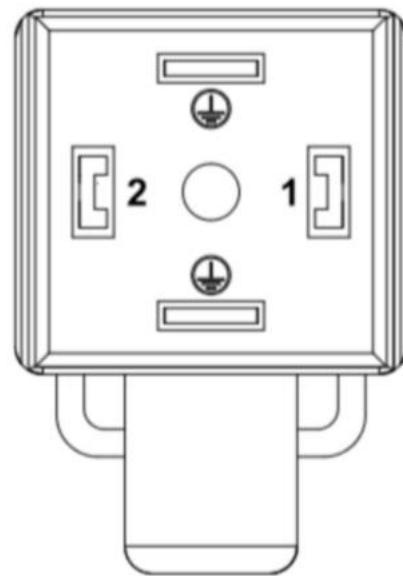
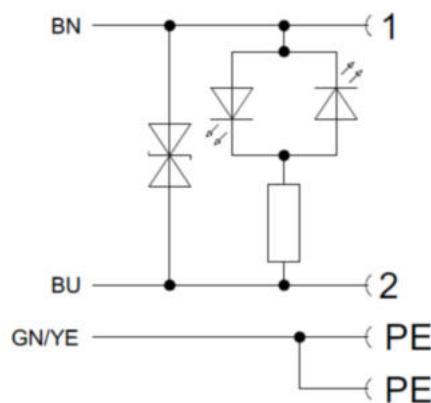
**Product:** [VAD 1B-1-3-212](#)

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)

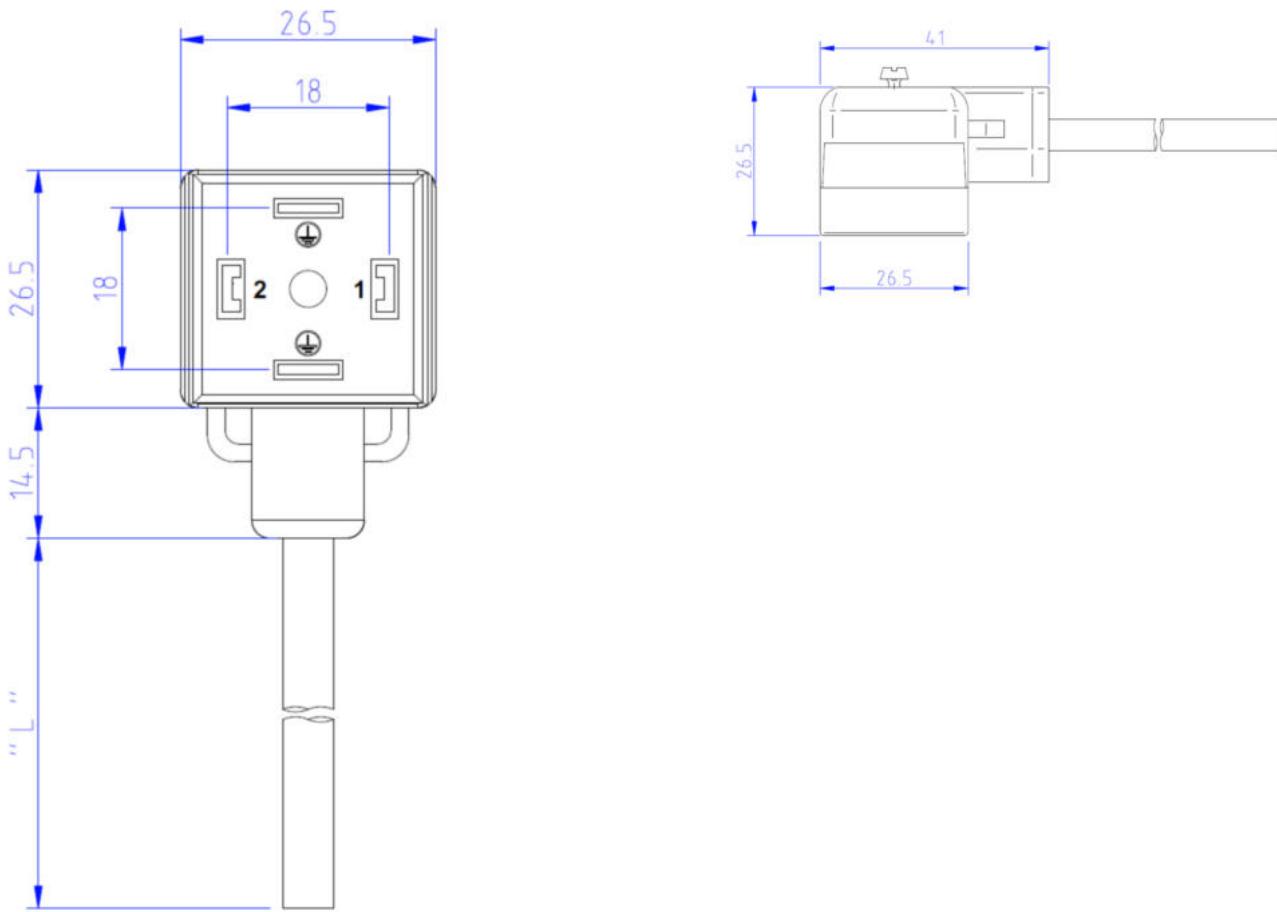
**Product Description**

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
---------------	---------------------------------

### 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:	> 10^9 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
--------------------------------	-------------

**Cable Data**

Cable Number:	212
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
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
-----------------	-----

**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

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.