



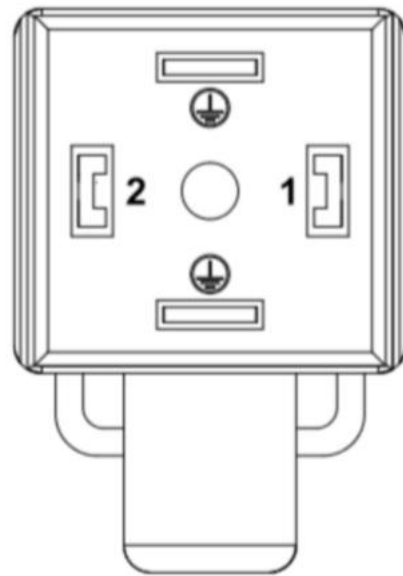
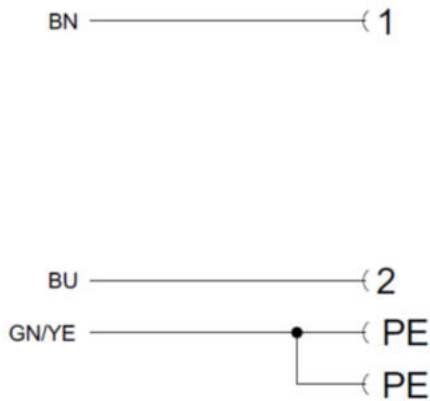
**Product:** [VAD 1D-3-3-205](#) 

VAD - Molded Female Cordset, Form A, Contacts: 2+2PE, without Protective Circuit or LED, 250 V | 4 A, IP67; PVC Black, 3x0.75mm<sup>2</sup> (18AWG)

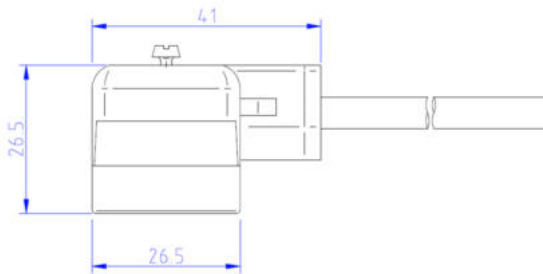
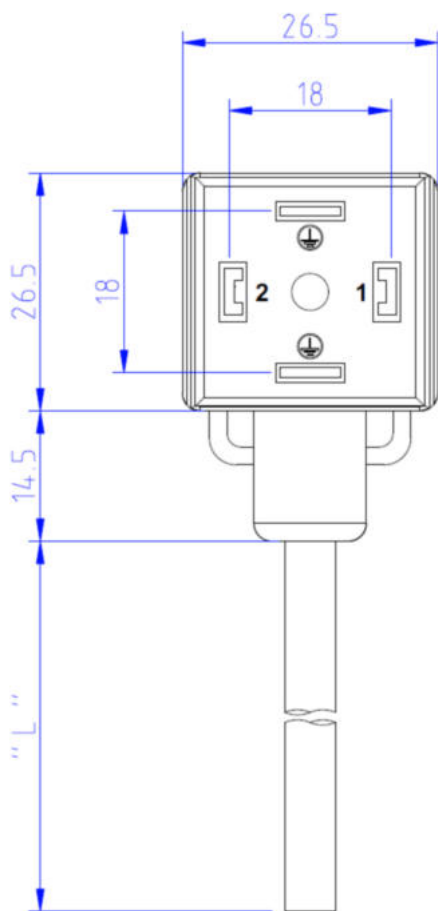
#### Product Description

175301-803-A (DIN 43650-A): Single-Ended Female Cordset, Contacts: 2+2PE, without Protective Circuit or LED, 250 V | 4 A, IP67; Cable: PVC Black, IEC, 3x0.75mm<sup>2</sup> (18AWG)

#### 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:                    | 250 V                                   |
| Rated Impulse Voltage:            | 4.0 kV                                  |
| Operating Voltage:                | 230 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  |

Additional Technical Data

|                                |             |
|--------------------------------|-------------|
| Fastening Torque (Attachment): | (50-60) Ncm |
|--------------------------------|-------------|

Cable Data

|   |   |
|---|---|
| Cable Number:                             | 205   |
| Conductor Size:                           | 0.75 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   |
| Conductor material:                       | Cu  |
| Cable Jacket Material:                    | PVC   |
| Cable Jacket Color:                       | black   |
| Cable Diameter D:                         | ø 5.5 ± 0.2 mm  |
| Wire Insulation Material:                 | PVC   |
| Insulated Wire Diameter:                  | ø 1.80 mm   |
| Ambient Temperature (Fixed Installation): | - 40 °C - + 70 °C                                       |
| Ambient Temperature (Flex Installation):  | + 5 °C - + 70 °C  |
| Flammability Class (Cable Jacket):        | DIN VDE 0472-804 Test Type B                            |
| Cable Characteristics:                    | free of polybrominated diphenyl ether, not halogen-free |

Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

Resistances

|              |    |
|--------------|----|
| Halogenfree: | no |
|--------------|----|

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                                 |
|--------|---------------------|--------------|---|
| 12164  | VAD 1D-3-3-205/2 M  | 2 m          | ID: 934889001 Name: GAN22LU-A0U-2050200-1UC |
| 12165  | VAD 1D-3-3-205/5 M  | 5 m          | ID: 934889002 Name: GAN22LU-A0U-2050500-1UC |
| 46925  | VAD 1D-3-3-205/10 M | 10 m         | ID: 934889003 Name: GAN22LU-A0U-2051000-1UB |
| 66896  | VAD 1D-3-3-205/6 M  | 6 m          | Name: GAN22LU-A0U-2050600                   |

© 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 "ASIS" 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.

