



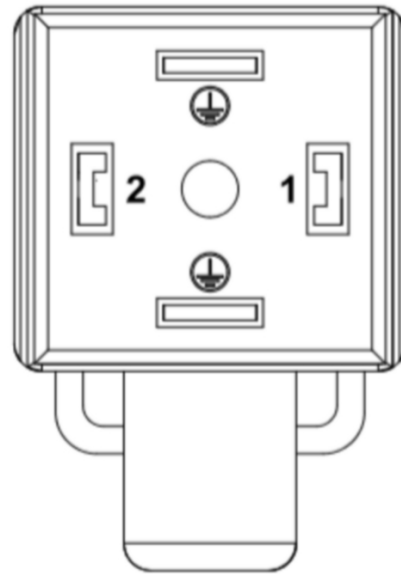
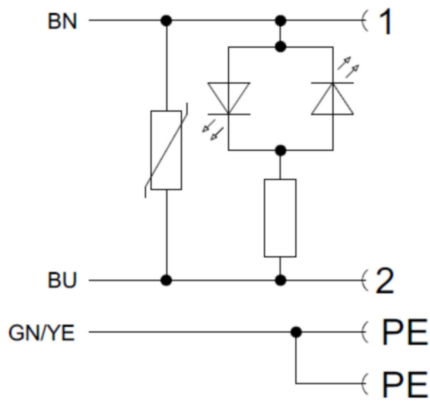
Product: [VAD 1A-1-3-212](#) 

Form A - Female 90° | #Contacts: 2+2 PE | Varistor (MOV) & ye LED | 24 V |
Cable: Black (PVC); 0.50 mm²; IEC

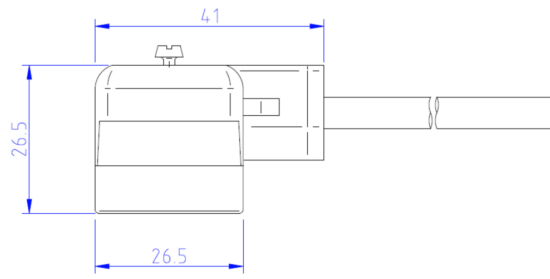
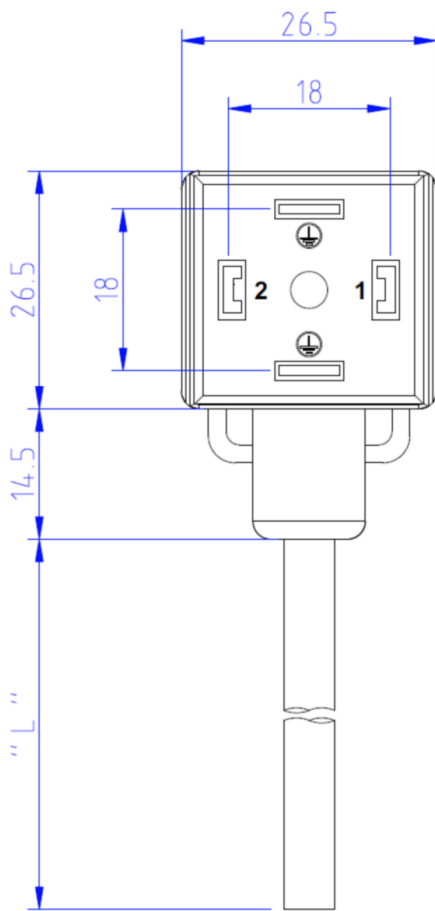
Product Description

Form A - Singled-Ended Female Angled Cordset | #Contacts: 2+2 PE | Varistor (MOV) & yellow LED | 24 V / 4 A | Cable: Black PVC 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 |
| Side 1 Product Sub Family: | VAD |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, single ended |
| Side 1 Type of Contact/Gender: | Socket Contact / Female |
| Connector Design: | Angled (90°) Body |
| Number of Pins: | 2+2 PE |
| Coding, Side 1: | A |
| Shielding Type: | Unshielded |
| Attachment Type: | Central Screw |
| Voltage Rating: | 24 V |
| Rated Impulse Voltage: | 4.0 kV |
| Operating Voltage: | 24 V AC/DC |
| Current Rating: | 4 A |
| Side 1 Contact Resistance: | ≤ 5 mOhm |
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 50 |
| Cross Section: | 0.50 mm ² |
| Ambient Temperature (Operation)*: | - 25 °C - + 80 °C |
| Protection Degree / IP Rating**: | IP65, IP67 |
| Side 1 Design Standard: | DIN EN 175301-803-A, ISO 4400 |
| Side 1 Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |

| | |
|--------------------------------|---|
| Clearance / Creepage Distance: | DIN EN 60664-1 (2008/01); VDE 0110-1 |
| Overtoltage Category: | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|----------------------------------|
| Contact Base Material: | Brass (CuZn) |
| Side 1 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: | Varistor (MOV) |

Additional Technical Data

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|----------------------------------|--|
| Fastening Torque (Attachment): | (50-60) Ncm |
| Accessories to Order Separately: | 934887001 - GAN EPDM gasket and holding clip |

Cable Data

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|---|--|
| Cable Number: | 212 |
| Conductor Size: | 0.5 mm ² |
| 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: | Polyvinyl Chloride (PVC) |
| Cable Jacket Color: | Black |
| Cable Diameter D: | Ø 5.0 mm [0.197 "] |
| Wire Insulation Material: | Polyvinyl Chloride (PVC) |
| Insulated Wire Diameter: | Ø 1.70 mm [0.07 "] |
| Ambient Temperature (Fixed Installation): | - 40 °C to + 70 °C |
| Ambient Temperature (Flex Installation): | + 5 °C to + 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

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|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

Resistances

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|-----------------|----------------------------------|
| 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 |
|-----------|---------------------|--------------|---|
| 12133 | VAD 1A-1-3-212/2 M | 2 m | ID: 934889043 Name: GAN22LU-V24-2120200-1UC |
| 12134 | VAD 1A-1-3-212/5 M | 5 m | ID: 934889045 Name: GAN22LU-V24-2120500-1UC |
| 26741 | VAD 1A-1-3-212/10 M | 10 m | ID: 934889046 Name: GAN22LU-V24-2121000-1UB |
| 45931 | VAD 1A-1-3-212/3 M | 3 m | ID: 934889044 Name: GAN22LU-V24-2120300-1UC |
| 107316 | VAD 1A-1-3-212/12 M | 12 m | Name: GAN22LU-V24-2121200 |
| 934636842 | VAD 1A-1-3-212/1 M | 1 m | ID: 18111 Name: GAN22LU-V24-2120100-1UD |

| | | | |
|-------|---------------------|------|-------------------------------|
| 21352 | VAD 1A-1-3-212/20 M | 20 m | Name: GAN22LU-V24-2122000-1UA |
|-------|---------------------|------|-------------------------------|

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