



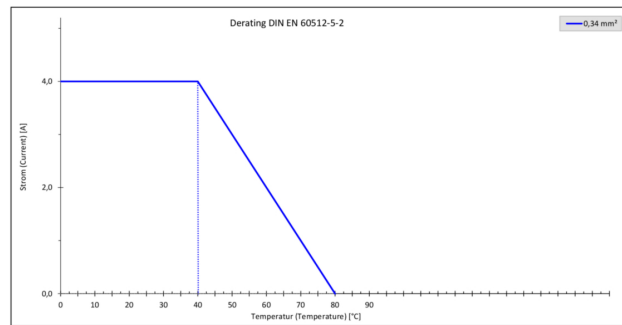
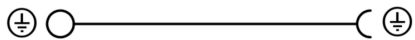
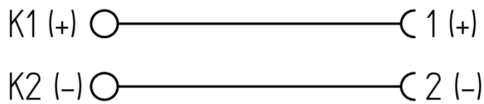
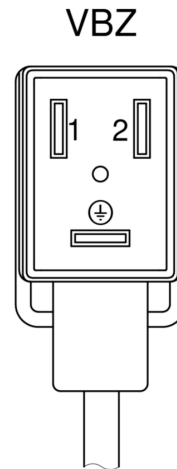
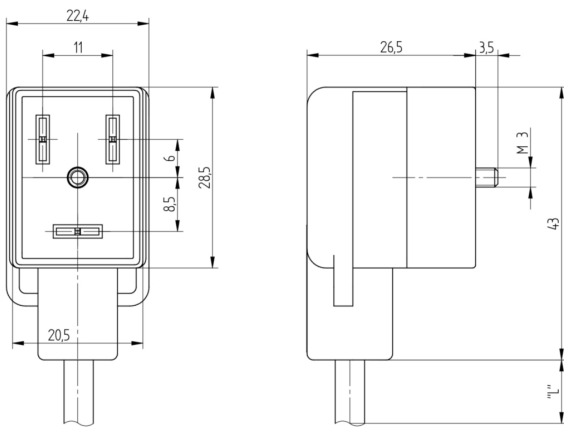
**Product:** [VB 1D-3-1-205](#)

VB Industrial Standard Single-Ended Cordset: Form B, 3-pin (2+1PE; PE at cable outlet), black body, without circuitry, 230 V AC/DC, 4 A; PVC black cable, 0.75 mm<sup>2</sup>

**Product Description**

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**Technical Drawing**



**Technical Specifications**

**Face View**

| Pin 1 | Pin 2 | PE           |
|-------|-------|--------------|
| brown | blue  | green-yellow |

**Technical Data**

|                 |                  |
|-----------------|------------------|
| Product Family: | Valve Connectors |
|-----------------|------------------|

|                                   |   |
|-----------------------------------|---|
| Product Sub Family:               | VB Industrial Standard                  |
| Brand:                            | Hirschmann                              |
| Connector Type:                   | Cordset, single ended                   |
| Type of Contact / Gender:         | Female                                  |
| Connector Design:                 | Angled                                  |
| Number of Pins:                   | 2+PE (PE at cable outlet)               |
| Coding:                           | B                                       |
| Shielding:                        | Unshielded                              |
| Attachment Type:                  | Central Screw                           |
| Rated Voltage:                    | 250 V AC/DC                             |
| Rated Impulse Voltage:            | 4.0 kV                                  |
| Operating Voltage:                | 230 V AC/DC                             |
| Rated Current*:                   | 4 A                                     |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:                    | ≤ 50                                    |
| Ambient Temperature (Operation)*: | -25 °C - +80 °C                         |
| Protection Degree / IP Rating**:  | IP65                                    |
| 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/Sn                     |
| Contact Bearer Material:             | PA GF                     |
| Contact Bearer Color:                | black                     |
| Flammability Class (Contact Bearer): | UL 94 V-0                 |
| Molded Body Material:                | TPE                       |
| Molded Body Color:                   | Black                     |
| Flammability Class (Molded Body):    | UL 94 HB                  |
| Attachment Material:                 | Steel, Philips combi slot |

## Additional Technical Data

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

## Cable Data

|   |  |
|---|--|
| Cable Number:                             | 205  |
| Conductor Size:                           | 0.75 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 5.5 ± 0.2 mm   |
| Wire Insulation Material:                 | PVC  |
| Insulated Wire Diameter:                  | ø 1.80 ± 0.10 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 Prüftart B                              |
| Cable Characteristics:                    | frei von polybromierten Diphenylether, nicht halogenfrei |

## Safety & Environmental Compliance

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

## Resistances

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

**Notes**

|                                     |  |
|-------------------------------------|--|
| Note Derating:                      | Notice derating  |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note:                               | Do not connect or disconnect under load.   |

**Variants**

| Item # | Item Description   | Cable Length |
|--------|--------------------|--------------|
| 12213  | VB 1D-3-1-205/2 M  | 2 m          |
| 46935  | VB 1D-3-1-205/10 M | 10 m         |
| 12214  | VB 1D-3-1-205/5 M  | 5 m          |

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