

IMAGE COMING SOON

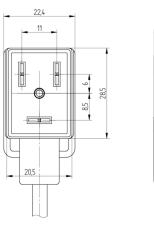
# Product: <u>VB 1B-1-1-226</u> ☑

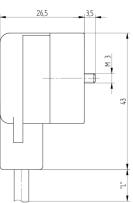
VB Industrial Standard Single-Ended Cordset: Form B, 3-pin (2+1PE; PE at cable outlet), translucent body, with supressor diode and yellow LED, 24 V AC/DC, 4 A; PUR black cable, 0.50 mm<sup>2</sup>

# **Product Description**

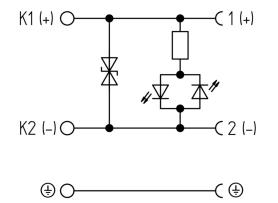
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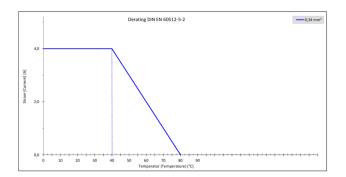
# **Technical Drawing**





VBZ





## **Technical Specifications**

Face View	
Pin 1 Pin 2 PE	
brown blue green-yellow	
Table in Date	
Technical Data	
Product Family:	Valve Connectors

Bradi         Instmam           Connector Ype:         Gods. single ended           Type of Contact / Gender         Finale           Connector Ype:         Finale           Connector Ype:         Alged           Connect	Product Sub Family:	VB Industrial Standard
Connector Type:Cordset, single endedType of Contact / Gender:FenaleConnector Design:AlgedNumber of Pins:PE (E Et acable outlet)Coding:BShielding:UnshieldedAttachment Type:Contral ScrewRated Voltage:0V A/C/CRated Inpulse Voltage:4.0 K/C/CAALCACOperating Voltage:4.0 K/CAALCACContact Resistance:100 MinInsulation Resistance:5.0 GAttach Typeser (Contage Screw)5.0 GAntiont Typeser (P Retart)165		
Type of Condext / Gender         Fendee           Connector Design:         Angled           Number of Pins:         2+PE (PE at cable outlet)           Coding:         B           Shielding:         Unshielded           Attachment Type:         Contral Screw           Rated Voltage:         0 V AC/DC           Rated Inpulse Voltage:         0 V AC/DC           Operating Voltage:         4 A           Contact Resistance:         4 A           Inpulse Tomperature (Operature)         50 Operature (Screw)           Antaine Typese:         50 Operature (Screw)		
Anied         Anied           Connector Design:         Anied           Number of Pins:         2+PE (PE at cable outlet)           Coding:         B           Stielding:         Unshielded           Stielding:         Unshielded           Attchment Type:         Coding:           Rade Voltage:         0:V AC/DC           Rated Mupulse Voltage:         4.V AC/DC           Operating Voltage:         4.V AC/DC           Rated Current*:         4.A           Insulation Resistance:         10:mohm           Joing System:         5.0           Antient Temperature (Operation)*         50°C + 80°C +	Connector Type:	Cordset, single ended
Number of Pins:         PE (PE at cable outlet)           Coding:         B           Shelding:         Inshelded           Attachment Type:         Coding:           Rade Voltage:         OV AC/DC           Rated Nupulse Voltage:         VA V/CDBA 2.0 kV)           Operating Voltage:         4/4 VAC/DC           Rated Current*:         4/4           Insulation Resistance:         10 mOhm           Nupulse Voltage:         5/0 Om           Ating Cycles:         5/0 Om           Maniper College Atting         Sing Om           Maint Temperature (Operating **)         PS           Protection Digree // PR Rate;         PS	Type of Contact / Gender:	Female
Coding:         B           Shielding:         Unshielded           Attachment Type:         Coding:           Raded Voltage:         0 V AC/DC           Rated Impulse Voltage:         0.0 V AC/DC           Operating Voltage:         0.0 V AC/DC           Rated Current*:         4.0 A           Contact Resistance:         0.10 NDM           Insulation Resistance:         0.0 SO           Atting Cycles:         5.0           Anbient Temperature (Operating*):         0.5	Connector Design:	Angled
NumberShiedain:UnshiedainAttachment Type:Central ScrewRated Voltage:30 V AC/DCRated Impulse Voltage:40 KV (PCBA 2.0 KV)Operating Voltage:4V AC/DCRated Current*:4AContact Resistance:10 m0hmInsulation Resistance:50Atting Cycles:50Anbient Temperature (Operating *:ES °C *: 88 °CProtection Degree /I PR Rating*:IPS	Number of Pins:	2+PE (PE at cable outlet)
Attachment Type: Central Screw     Attachment Type: 00 V AC/DC     Acted Voltage: 00 V AC/DC     Acted Impulse Voltage: 4.0 V/ CCBA 2.0 V/     Coperting Voltage: 4.0 V/ CCBA 2.0 V/     Contact Resistance: 4.0     Anonemetic Monomic	Coding:	В
Rad Voltage:30 V AC/DCRade Joutage:40 VC/DSA 2.0 K/JOperating Voltage:40 VC/DCContact Resistance:4.Insulation Resistance:10 no DnMating Cycles:50Anbient Temperature (Operating **)50 CProtection Degree // IP Rating **Fei CProtection Degree // IP Rating **Fei C	Shielding:	Unshielded
Rade Impulse Voltage:A.0kV (PCBA 2.0 kV)Operating Voltage:4/ VAC/DCRated Current*:4.AContact Resistance:5.0 no.DmInsulation Resistance:5.0 no.DmMating Cycles:5.0 no.DmAmbient Temperature (Operating **)5.0 no.DmProtection Degree // IP Rating*:Poil	Attachment Type:	Central Screw
Operating Voltage:     24 V AC/DC       Rated Current*:     4 A       Contact Resistance:     5 10 mOhm       Insulation Resistance:     > 10*9 Ohm       Mating Cycles:     > 50       Ambient Temperature (Operation)*:     25 °C - 480 °C       Protection Degree / IP Rating**:     IP65	Rated Voltage:	30 V AC/DC
Rated Current*:       4A         Contact Resistance:       >10 mOhm         Insulation Resistance:       >10^9 Ohm         Mating Cycles:       >50         Ambient Temperature (Operation)*:       >5° C + 480 °C         Protection Degree / IP Rating**:       P65	Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Contact Resistance: <ul> <li>10 mOhm</li> <li>10 mOhm</li> <li>10 * 00 mOhm</li> <li>10 * 00 mOhm</li> <li>50</li> <li>50</li> <li>50 * 00 * 00 * 00 * 00 * 00 * 00 * 00 *</li></ul>	Operating Voltage:	24 V AC/DC
Insulation Resistance:     > 10^9 Ohm       Mating Cycles:     ≤ 50       Ambient Temperature (Operation)*:     -25 °C - +80 °C       Protection Degree / IP Rating**:     IP65	Rated Current*:	4 A
Mating Cycles: <ul> <li>S 50</li> <li>Ambient Temperature (Operation)*:</li> <li>-25 °C - +80 °C</li> <li>Protection Degree / IP Rating**:</li> <li>IP65</li> </ul>	Contact Resistance:	≤ 10 mOhm
Ambient Temperature (Operation)*:     -25 °C - +80 °C       Protection Degree / IP Rating**:     IP65	Insulation Resistance:	> 10^9 Ohm
Protection Degree / IP Rating**: IP65	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)	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); 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)	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:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot

# **Protection Circuitry**

Function Indicator:	Yellow LED
Protective Circuit:	Supressor diode

## **Additional Technical Data**

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

## **Cable Data**

ouble bata	
Cable Number:	226
Conductor Size:	0.50 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
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 4.6 ± 0.20 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)
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °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
Resistances	
Halogenfree:	yes
Oil Resistance:	Good chemical and oil resistance

#### 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
16080	VB 1B-1-1-226/2 M	2 m
44674	VB 1B-1-1-226/5 M	5 m
46932	VB 1B-1-1-226/10 M	10 m
453	VB 1B-1-1-226/2,5 M	2.5 m
51520	VB 1B-1-1-226/3 M	3 m

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