

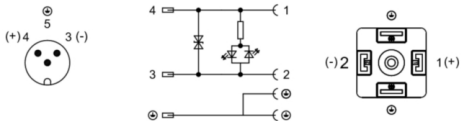


M12-Form A | M12- Male 90° | #Contacts: 3 | Form A - Female 90° |
#Contacts: 2+2 PE | Suppression diode (TVS) & yellow LED | 24 V | Cable:
Black (PVC); 0.50 mm²; IEC

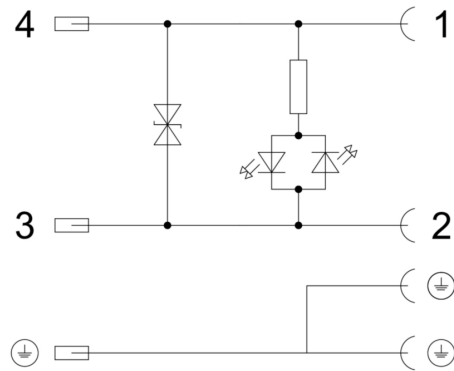
Product Description

M12 - Form A, Double-Ended Cordset| M12- Male Angled | #Contacts: 3, A-coded | Form A - Female Angled Cordset | #Contacts: 2+2 PE | Suppression diode (TVS) & yellow LED | 24 V / 4 A | Cable: Black PVC Jacket; 3x0.50 mm² (20 AWG); IEC

Technical Drawing



S2 - Suppression Diode (TVS) and LED



Technical Specifications

Face View Side 1

| Pin 3 | Pin 4 | Pin 5 |
|-------|-------|--------------|
| blue | brown | green-yellow |

Face View Side 2

| Pin 1 | Pin 2 | PE1 | PE2 |
|-------|-------|--------------|--------------|
| brown | blue | green-yellow | green-yellow |

Product Description

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

| | |
|------------------------|-------------------------|
| Brand: | Hirschmann |
| Connector Type: | Cordset, double ended |
| Shielding: | Unshielded |
| Replacement for: | RSWT 5-3-VAD 1B-1-3-212 |
| Rated Voltage: | 24 V |
| Rated Impulse Voltage: | 4.0 kV (PCBA 2.0 kV) |
| Rated Current*: | 4 A |

Technical Data Side 1

| | |
|--------------------------------------|---|
| Product Sub Family: | RSWT - M12 Standard |
| Type of Contact / Gender: | Pin Contact / Male |
| Connector Design: | Angled (90°) Body |
| Attachment Type: | Coupling Screw |
| Number of Pins: | 3 |
| Coding: | A |
| Contact Resistance: | ≤ 10 mOhm |
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 100 |
| Conductor Cross Section: | 0.50 mm² |
| Ambient Temperature (Operation)*: | - 40 °C - + 90 °C |
| Protection Degree / IP Rating**: | IP65, IP67, IP68 (1 m / 24 h), IP69K |
| Design Standard: | IEC 61076-2-101 |
| 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) |
| Contact Base Material: | Copper Alloy (CuSn) |
| Contact Plating: | Gold over Copper (Cu/Au) |
| Contact Bearer Material: | Thermoplastic Polyurethane (TPU) |
| Contact Bearer Color: | Orange |
| Flammability Class (Contact Bearer): | UL 94 HB |
| Molded Body Material: | Thermoplastic Polyurethane (TPU) |
| Molded Body Color: | Grey Translucent |
| Flammability Class (Molded Body): | UL 94 HB |
| Attachment Material: | Brass (CuZn) |
| Attachment Plating: | Nickel (Ni) |
| Fastening Torque (Attachment): | M 12x1: (50-60) Ncm, hand-tight |

Cable Data

| | |
|---|--------------------------|
| Cable Number: | 212 |
| Conductor Size: | 0.5 mm² |
| Number of Wires: | 3 |
| Minimal Bending Radius (Fixed Inst): | > 5 x D |
| Minimal Bending Radius (Flexible Inst): | > 10 x D |
| Cycles (Bending): | > 1 mio |
| 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: | Flexibility: Good Abrasion Resistance: Good Chemical Resistance: resists water, oil, acids, and alkalis Flame Retardance: Good Halogen-Free: No Mechanical Durability: Good (resists impact, tear, and flex) Environmental Suitability: Indoor, excellent balance of performance, cost, and versatility |

Technical Data Side 2

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|--|--|
| Product Sub Family, Side 2: | GAN |
| Type of Contact / Gender, Side 2: | Socket Contact / Female |
| Connector Design, Side 2: | Angled (90°) Body |
| Attachment Type, Side 2: | Central Screw |
| Number of Pins, Side 2: | 2+2 PE |
| Coding, Side 2: | A |
| Contact Resistance, Side 2: | ≤ 10 mOhm |
| Insulation Resistance, Side 2: | > 10*9 Ohm |
| Mating Cycles, Side 2: | ≤ 50 |
| Ambient Temperature (Operation), Side 2*: | - 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001] |
| Protection Degree / IP Rating, Side 2**: | IP65, IP67 (IP69K: without additional gasket; max. +80 °C) |
| Design Standard, Side 2: | DIN EN 175301-803-A, ISO 4400 |
| Pollution Degree, Side 2: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Clearance / Creepage Distance, Side 2: | DIN EN 60664-1 (2008/01); VDE 0110-1 |
| Overvoltage Category, Side 2: | III acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material, Side 2: | Brass (CuZn) |
| Contact Plating, Side 2: | Copper over Tin (Cu/Sn) |
| Contact Bearer Material, Side 2: | Glass-filled Polyamides (PA GF) |
| Contact Bearer Color, Side 2: | Black |
| Flammability Class (Contact Bearer), Side 2: | UL 94 V-0 |
| Molded Body Material, Side 2: | Thermoplastic Polyurethane (TPU) |
| Molded Body Color, Side 2: | Grey Translucent |
| Flammability Class (Molded Body), Side 2: | UL 94 HB |
| Attachment Material, Side 2: | Steel, Philips combi slot |
| Gasket Material, Side 2: | Molded Integrated Gasket |
| Function Indicator, Side 2: | Yellow LED |
| Protective Circuit, Side 2: | Suppression diode (TVS) |
| Fastening Torque (Attachment), Side 2: | (50-60) Ncm |
| Accessories to Order Separately, Side 2: | 934887001 - GAN EPDM gasket and holding clip |
| Note, Side 2: | 1. Do not connect or disconnect under load. 2. Extended temperature range of -40°C performed by Belden in mated condition using EPDM gasket accessory. |

Approvals

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| VDE: | Yes |
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Safety & Environmental Compliance

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

Resistances

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|-----------------|----------------------------------|
| Halogenfree: | Yes |
| Oil Resistance: | Good chemical and oil resistance |

Notes

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| Note Derating: | Notice derating |
| Update and Revision: | Revision Number: 0.6 Revision Date: 07-12-2025 |

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