



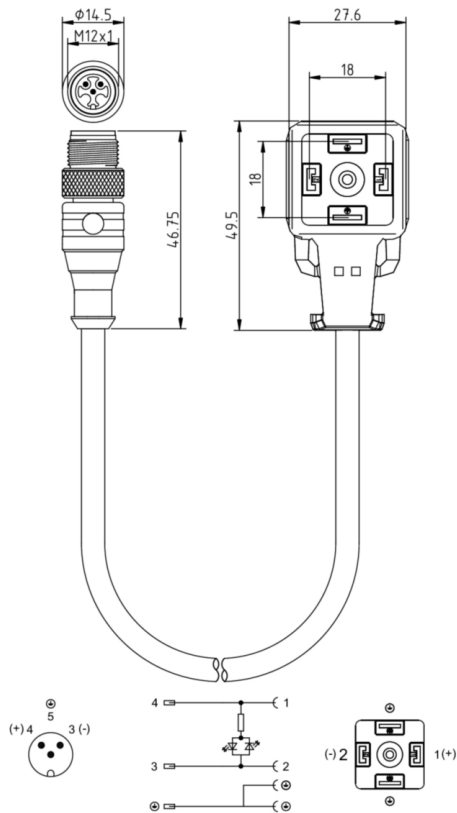
Product: [RST 5-3-GAN22LU-L14-241](#)

M12-Form A | M12- Male 0° | #Contacts: 3 | Form A - Female 90° | #Contacts: 2+2 PE | yellow LED | 24 V | Cable: Orange (PUR); 0.50 mm²; IEC | cURus

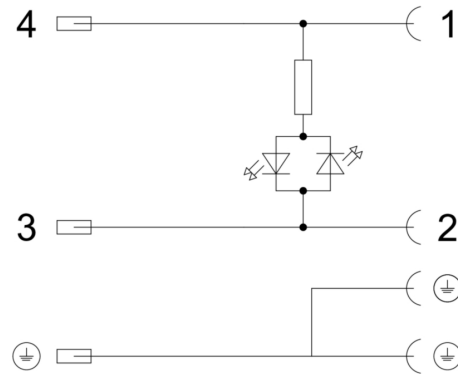
Product Description

M12 - Form A, Double-Ended Cordset | M12- Male Straight | #Contacts: 3, A-coded | Form A - Female Angled Cordset | #Contacts: 2+2 PE | yellow LED | 24 V / 4 A | Cable: Orange PUR Jacket; 3x0.50 mm² (20 AWG); IEC | UL 2238; cURus

Technical Drawing



L1 - 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 |
|-----------------|------------------|

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|------------------------|-----------------------|
| Brand: | Hirschmann |
| Connector Type: | Cordset, double ended |
| Shielding: | Unshielded |
| 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: | RST - M12 Standard |
| Type of Contact / Gender: | Pin Contact / Male |
| Connector Design: | Straight (0°) 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: | 241 |
| 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): | > 5 mio |
| Conductor material: | Cu |
| Cable Jacket Material: | Polyurethane (PUR) |
| Cable Jacket Color: | Orange |
| Cable Diameter D: | Ø 3.25 mm [0.128 "] |
| Wire Insulation Material: | High-density polyethylene (HDPE) |
| Insulated Wire Diameter: | Ø 1.50 mm [0.06 "] |
| Ambient Temperature (Fixed Installation): | - 40 °C to + 90 °C (UL: + 80 °C) |
| Ambient Temperature (Flex Installation): | - 20 °C to + 90 °C (UL: + 80 °C) |

| | |
|--|--|
| Ambient Temperature (Drag Chain Inst): | - 25 °C to + 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: | Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -40°C) Flame Retardance: Varies Halogen-Free: Yes Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments |

Technical Data Side 2

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| Product Sub Family, Side 2: | GAN - cURus 2238 |
| 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 |
| 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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|----------|----------------|
| UL-File: | E315587 |
| UL: | UL 2238; cURus |
| VDE: | Yes |

Safety & Environmental Compliance

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|-----------------|-----|
| RoHS Compliant: | Yes |
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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: 0.4 Revision Date: 07-06-2025 |

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