



Product: [RSWT 5-3-GAN22LU-D24-212](#)

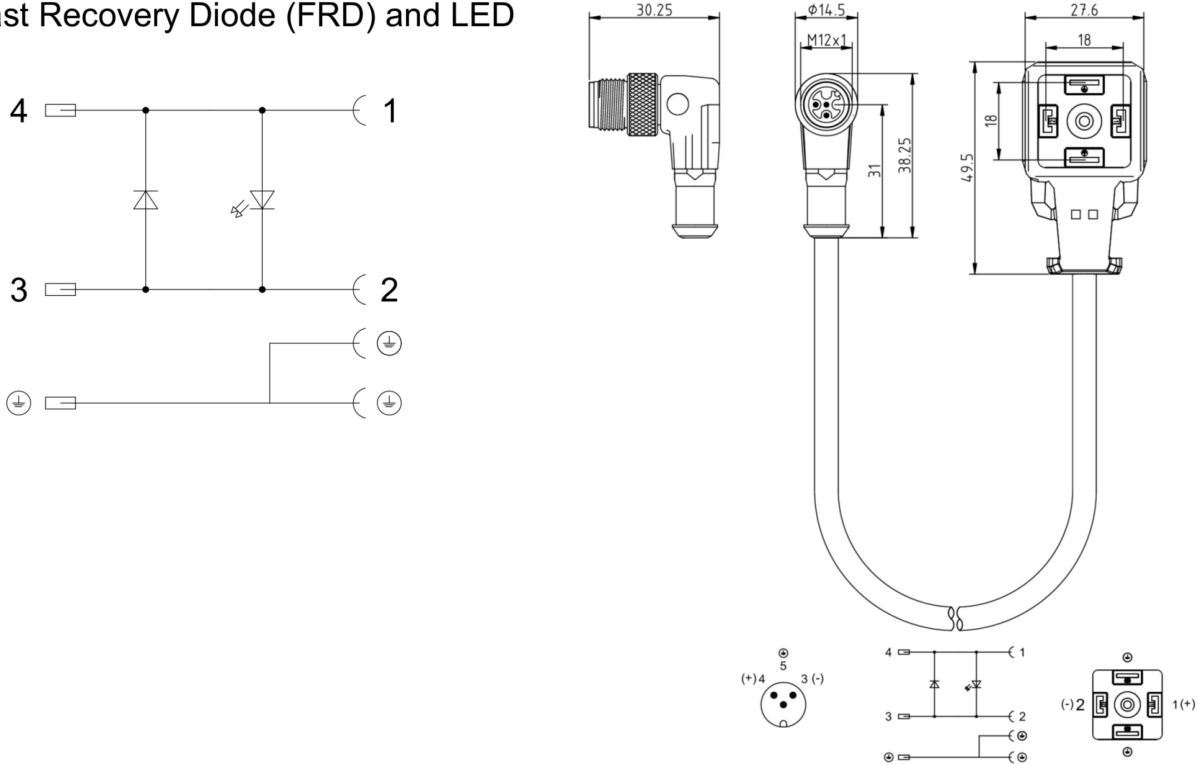
M12-Form A | M12- Male 90° | #Contacts: 3 | Form A - Female 90° | #Contacts: 2+2 PE | Recovery Diode (FRD) & yellow LED | 24 V | Cable: Black (PVC); 0.50 mm²; IEC

Product Description

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

Technical Drawing

D2 - Fast Recovery Diode (FRD) 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
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Brand:	Hirschmann
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Replacement for:	RSWT 5-3-VAD 1F-4-3-212
Voltage Rating:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V DC
Current Rating:	4 A

Technical Data Side 1

Side 1 Product Sub Family:	M12 Standard
Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	M12 Male 3 Pole 90°
Attachment Type:	Coupling Screw
Number of Pins:	3
Coding, Side 1:	A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Cross Section:	0.50 mm ²
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Side 1 Design Standard:	IEC 61076-2-101
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
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper Alloy (CuSn)
Side 1 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 mm ²
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

Side 2 Product Sub Family:	GAN
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	Form A Female 2+2PE Pole 90°
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
Protection Degree / IP Rating, Side 2**:	IP65, IP67*
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, Phillips combi slot
Gasket Material, Side 2:	Molded Integrated Gasket
Function Indicator, Side 2:	Yellow LED
Protective Circuit, Side 2:	Recovery Diode (FRD)
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

UL-File:	E315587
UL:	UL 2238; cURus
VDE:	Yes

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note Derating:	Notice derating

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