



Product: RSWT 5-3-GAN22LU-D24-226 ☑

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

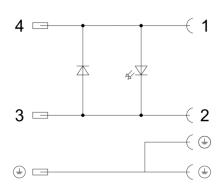
Black (PUR); 0.50 mm²; IEC | cURus

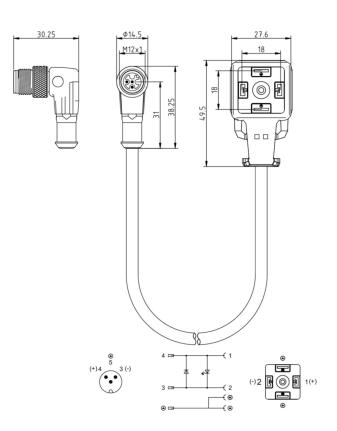
Product Description

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 PUR Jacket; 3x0.50 mm² (20 AWG); IEC | UL 2238; cURus

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

Brand:	Hirschmann
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Replacement for:	RSWT 5-3-VAD 1F-4-3-241
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V DC
Rated Current*:	4 A

Technical Data Side 1

5 1 10 1 5 3	POUT MARK
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 mm ²
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:	226
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):	> 5 mio
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 4.6 mm [0.181 "]
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.50 mm [0.06]"

Ambient Temperature (Fixed Installation):	- 50 °C to + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C to + 105 °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

Product Sprainly, Side 2. Chronical Cleaning. Control Cleaning.<	Technical Data Side 2	
	Product Sub Family, Side 2:	GAN - cURus 2238
Alterhant Type, Side 24 Certal Scow Number of Pins, Side 24 24 PE Coding, Side 25 40 PC Coding, Side 26 10 m/m Insulation Resistance, Side 2 10 m/m Manting Cycles, Side 27 50 m/m Alter Deployers (Pins) 45 m/m Problem Emparation, Side 28 50 Problem Emparation, Side 29 35 m/m 15 m/m Problem Congress (Pins) 25 m/m (Pins)	Type of Contact / Gender, Side 2:	Socket Contact / Female
Number of Prs. Side 2: 24 PE Coding. Side 2: 4 Contract Resistance, Side 2: 10 00 Om Installation Resistance, Side 2: 10 00 Om Albitory Cyces, Side 2: 50 Arbitory Temperature: (Operation) Side 2: 25 °C + 85 °C [Extended Temperature - 40 °C + 105 °C with additional gasket accessory, 934887011] Prolection Degree / IP Gong Side 2: 95, IPST (IPSRC without additional gasket max + 80 °C) Pollution Degree / IP Sides, Side 2: 10 NE N 175301-803-A, ISO 4400 Pollution Degree / IP Sides, Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Delay Standard Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Delay Standard Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Delay Standard Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Contract Degree / IP Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Contract Degree / IP Side 2: 30 no IN EN 80064-1 (VDE 0110-1) Contract Degree / Side 2: 40 personal volume of the side of the s	Connector Design, Side 2:	Angled (90°) Body
Coding Side 2: A Contact Resistance, Side 2: 10 nOrbon Installation Resistance, Side 2: 5 10 n°9 chm Maling Cycles, Side 2: 5 5 Abbin Transpallation, Side 2: 2 5° C+ 85° C [Extended Temperature +40° C+ 105° C with additional gasket accessory, 834887001] Placetion Depter / IPP Pilos, 1967 (Pibots, Verbour additional gasket max. +80°C) Design Side 2:** 0 10 NEN 175301-803-A ISO 4400 Design Side 3:** 0 10 NEN 175301-803-A ISO 4400 Design Side 3:** 0 10 NEN 160684-1 (VDE 0110-1) Clearance / Orcepage DIN EN 06684-1 (VDE 0110-1) Clearance / Orcepage DIN EN 06684-1 (VDE 0110-1) Clearance / Orcepage Diss (GCA) Clearance / Orcepage Diss (GCA) Clearance / Orcepage Bases (GCA) Clear Cleared Paser Material, Side 2: Gpeer over Tin (Cull 60) Clear Cleared Paser Material, Side 2: Gester Clear Cleared Coder, Side 2 Side Order Material, Side 2: Gester Clear	Attachment Type, Side 2:	Central Screw
Contact Resistance, Side 2 1 to m/OHM Insulation Resistance, Side 2 2 10 to 90 thm Matting Cycles, Side 2 5 0 Ambient Temperature (operation), Side 2 5 10 ** C.	Number of Pins, Side 2:	2+2 PE
Insulation Resistance, Side 2: > 1019 Ohrm Milding Cycles, Side 2: \$ 50 Arbbert, 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: 10 NE N175301-803-A, 180-400 Pollution Degree, Side 2: 3 acc. to DIN EN 105684-1 (2008101): VDE 0110-1 Clearance / Orcepage 3 in En. to DIN EN 80684-1 (2008101): VDE 0110-1 Clearance / Orcepage 10 In En. 105864-1 (2008101): VDE 0110-1 Contact Base Material, Side 2: Copper over Tim (Cu/Sn) Contact Base Material, Side 2: Copper over Tim (Cu/Sn) Contact Baser Material, Side 2: Copper over Tim (Cu/Sn) Contact Baser Material, Side 2: Side Sc Contact Baser Material, Side 2: L9 44 V-0 Elamanbility Class (Contact Baser Material, Side 2: Side Sc Contact Baser Material, Side 2: L9 44 V-0 Elamanbility Class (Contact Baser Material, Side 2: L9 44 V-0 Elamanbility Class (Models Material, Side 2: For y Transluter Flammability Class (Model Material, Side 2: For y Transluter Flammability Class (Model) Elementation of the side of the side of the side of the	Coding, Side 2:	A
2 Mating Cycles, Side 2: 2 5°C + 185°C [Extended Temperature - 40°C + 105°C with additional gasket accessory, 93488701] Ambient Temperature (Operation), Side 2: 2 5°C + 85°C [Extended Temperature + 40°C + 105°C with additional gasket accessory, 93488701] Peligris Randard, Side 2: 3 Extended Side 2: 3 Extended Side 2: 3 Extended Side 2: 3 Extended Side 2: 4 Extended Side 3: 4 Extended Side	Contact Resistance, Side 2:	≤ 10 mOhm
Andbeint Temperature (Operation), Side 2: 2° C° + 38° C° [Extended Temperature - 40° C° + 105° C with additional gasket accessory, 93488701] Protection Design Standar, Side 2: P65. IPE7 (IP69K: without additional gasket; max. +80° C) Pollution Degree, Side 2: 30 nc to DIN EN 175301-803-A, ISO 4400 Clustance / Croepage Dilatino, Side 2: 30 acc to DIN EN 806664-1 (VDE 0110-1) Correct Englage Category, Side 2: 30 acc to DIN EN 806664-1 (VDE 0110-1) Correct Bland, Side 2: Coper over Tin (CuSh) Corticat Plating, Side 2: U. 94 v.0 Elementality Class (Corticat) U. 94 v.0 Elementality Class (Corticat) U. 94 v.0 Model Body Calci, Side 2: Core y Translucent Elementality Class (Model 2) U. 94 HB Attachment Material, Side 2: Model Integrated Gasket Faste (Model Side 2) Note (Pip) Corticated (Model Integrated Gasket)		> 10^9 Ohm
Post Protection Degree	Mating Cycles, Side 2:	≤ 50
Reating, Side 2**. Fol. Roll (IVER) Ministration deather in Section (IVER) Ministration (IVER) Ministratio	Ambient Temperature (Operation), Side 2*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]
Pollution Degree, Side 2: 3 acc. to DIN EN 60684-1 (VDE 0110-1) Clearance / Creepage Clearepage Cl	Protection Degree / IP Rating, Side 2**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)
Clearance Creepage Distance, Side 2: DIN EN 60664-1 (2008/01): VDE 0110-1 Qvervoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Opper over Tin (Cu/Sn) Contact Plating, Side 2: Opper over Tin (Cu/Sn) Contact Bearer Material, Side 2: Slass-filled Polyamides (PA GF) Contact Bearer Color, Side 2: Black Elammability Class (Cond) July 4 V-0 Moided Body Material, Side 2: Formoplastic Polyurethane (TPU) Moided Body Material, Side 2: Gey Translucent Flammability Class (Moided Body Side 2: Gey Translucent Flammability Class (Moided Body Material, Side 2: Gey Translucent Flammability Class (Moided Body Material, Side 2: Gey Translucent Flammability Class (Moided Body Material, Side 2: Moided Body Material, Side 2: Moided Body Material, Side 2: Flammability Class (Moided Body Material, Side 2: Moided Body Material, Side 2:	Design Standard, Side 2:	DIN EN 175301-803-A, ISO 4400
Distance, Side 2: I la cc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Copper over Tin (Cu/Sn) Contact Base Material, Side 2: Copper over Tin (Cu/Sn) Contact Baerer Material, Side 2: Copper over Tin (Cu/Sn) Contact Bearer Color, Side 3: Black Contact Bearer Color, Side 3: Black Contact Bearer Color, Side 3: Black Contact Bearer Color, Side 3: Le 4 V-0 Contact Bearer Color, Side 3: Contact Bearer Color, Side 3: Countact Bearer Color, Si	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
2. Contact Base Material, Side 2. Coper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Coper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Coper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Contact Bearer Material, Side 2. Disability Class (Contact Bearer Color, Side 2. Contact Bearer Color, Side 2. Thermoplastic Polyurethane (TPU) Molded Body Material, Side 2. Thermoplastic Polyurethane (TPU) Molded Body Color, Side 2. Grey Translucent Flammability Class (Modde Body Color, Side 2. Steel, Philips combi slot Attachment Material, Side 2. Molded Integrated Gasket Function Indicator, Side 2. Vellow LED Protective Circuit, Side 2. Recovery Diode (FRD) Fastening Torque (Katachment) Side 2. Seel, Philips Combi solt Accessories to Order Separately, Side 2. Sales Root - GAN EPDM gasket and holding clip		DIN EN 60664-1 (2008/01); VDE 0110-1
2: Contact Plating, Side 2: Coper over Tin (Cu/Sn) Contact Bearer Material, Side 2: Contact Bearer Color, Side 2: Contact Bearer Color, Side 2: Contact Bearer Color, Side 2: Contact Bearer Side 2: Contact B		III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2: Contact Bearer Color, Side 2: Elammability Class (Contact Bearer), Side 2: Contact Bearer), Side 2: Contact Bearer Color, Side 2: Contact Bearer), Side 2: Contact Bearer Material, Side 2: Contact Bearer), Side 2: Contact Bearer Material, Side 2: Contact Bearer		Brass (CuZn)
Side 2: Slass-filed Folyafilides (FA GF) Contact Bearer Cotor, Side 2: UL 94 V-0 Molded Body Material, Side 2: Thermoplastic Polyurethane (TPU) Molded Body Cotor, Side 2: Grey Translucent Flammability Class (Molded Body Cotor, Side 2: Grey Translucent Flammability Class (Molded Body Cotor, Side 2: Steel, Philips combi slot Attachment Material, Side 2: Steel, Philips combi slot Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Frotective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: Steel, Shas (So-60) Ncm Accessories to Order Sparately, Side 2: Steel, Shas (So-60) Ncm	Contact Plating, Side 2:	Copper over Tin (Cu/Sn)
2: International Control Contr		Glass-filled Polyamides (PA GF)
Bearer), Side 2:		Black
2: Molded Body Color, Side 2: Grey Translucent Flammability Class (Molded Body), Side 2: Steel, Philips 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: Go-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Flammability Class (Molded Body), Side 2: Attachment Material, Side 2: Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastining Torque (Attachment), Side 2: Side 2: Side 3: Side 4: Side 4: Side 5: Side 6: Side 6: Side 6: Side 7: Side 7: Side 8: Side 8:		Thermoplastic Polyurethane (TPU)
Body), Side 2: Steel, Philips 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: So-60) Ncm Accessories to Order Separately, Side 2: 94887001 - GAN EPDM gasket and holding clip	Molded Body Color, Side 2:	Grey Translucent
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: So-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip		UL 94 HB
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	Attachment Material, Side 2:	Steel, Philips combi slot
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	Gasket Material, Side 2:	Molded Integrated Gasket
Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Function Indicator, Side 2:	Yellow LED
(Attachment), Side 2: Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Protective Circuit, Side 2:	Recovery Diode (FRD)
Separately, Side 2: 954607001 - GAIN EPDIM gasket and floiding clip	Fastening Torque (Attachment), Side 2:	(50-60) Ncm
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.		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:

Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Note Derating:	Notice derating
Update and Revision:	Revision Number: 0.4 Revision Date: 07-04-2025

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