



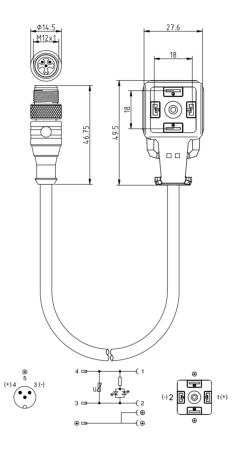
Product: <u>RST 5-3-GAN22LU-V24-241</u> ☑

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

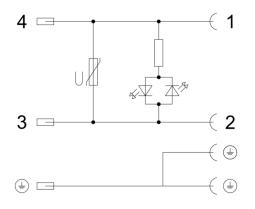
Product Description

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

Technical Drawing



V2 - Varistor (MOV) 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:	Unshielded
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Rated Current*:	4 A

Technical Data Side 1

Type of Odnad YoaPicolard MailConserder SegieStagik (V) BodyAtaxama YyaeSuping SeawNumber of PassSuping SeawContagAContagAContagSuping SeawContag RestanceSuping SeawSuping SeawSuping SeawContag RestanceSuping SeawContag Res		
Conception PartialStraktift (*) GodyAttachment Type:Coupling ScrewNumber Of Prins:3Goding:AContant Resistance:10 mOhnInsulation Resistance:10 mOhnConduct Cross Socie50 mmConduct Cross Socie50 mm<	Product Sub Family:	RST - M12 Standard
Atachem Type:Souling SorewNumber O Fins:3Coding:ACoding:100 ChmInsulation Realized100 ChmInsulation Realized100 ChmMatgo Optice:0.50 m ¹ Contact Cross Socie:0.50 m ² Contact Cross Socie:0.50 m ² Arbiber Dyspect0.50 m ² Arbiber Dyspect0.50 m ² Contact Cross Socie:0.50 m ² Polici:0.50 m ² Contact Socie:0.50 m ² Contact Soc	Type of Contact / Gender:	Pin Contact / Male
Number of Pine 9 Coding: A Coding: A Coding: 10mOhn Isulation Resistance: > 10mOhn School: > 10mOhn Maing Cycles: > 10mOhn Codictor Cross Section: > 00mohn Conductor Cross Section: > 00mohn Conductor Cross Section: > 00mohn Design Stander: > 0mohn Design Stander: <t< td=""><td>Connector Design:</td><td>Straight (0°) Body</td></t<>	Connector Design:	Straight (0°) Body
Conge: A Condac Resistance: \$ 10 mOhm Insulation Resistance: > 109 Ohm Maing Ques: \$ 10 Admont Resistance: \$ 109 Ohm Conductor Conse Section: \$ 100 Contact Reserver: \$ 100	Attachment Type:	Coupling Screw
Chate Resistance: > 10 mohm Insulation Resistance: > 10 90 hm Mating Cycles: > 100 Conduct Cross Section: 0.50 mm ² Conduct Cross Section: 0.50 mm ² Abbent Temperature: oh c - + 90 °C Conduct Cross Section: 0.50 rm ² Protection Degree // Protection p65 (P67, IP68 (1 m / 24 h), IP68 K Design Standard: EC 61078-2-101 Standard: EC 61078-2-101 Oldino Degree: 3 co. to DIN EN 6064-1 (VDE 0110-1) Obstance: Diper Alloy (CuSn) Orverlage Category: II co. to DIN EN 6064-1 (VDE 0110-1) Contact Bear Materia: Coper Alloy (CuSn) Contact Pating: Gol over Coper (CuAu) Contact Pating: II co. to DIN EN 6064-1 (VDE 0110-1) Contact Bear Materia: Formoplasic Polyurethane (TPU) Contact Bear Materia: II co. to DIN EN 6064-1 (VDE 0110-1) Contact Bear Materia: II co. to DIN EN 6064-1 (VDE 0110-1) Contact Bear Materia: II co. to DIN EN 6064-1 (VDE 0110-1) Contact Bear Materia: II co. to DIN EN 6064-1 (VDE 0110-1) Contact	Number of Pins:	3
Instalation Resistance: > 01°9 Ohm Mailing Cycles: > 100 Concludor Cross Section: 0.50 mm ² Ambient Temperature (Operation) ¹¹ : 0.50 for, 1/968 (1 m / 24 h), 1/969K Design Standard: 165, 1/67, 1/968 (1 m / 24 h), 1/969K Design Standard: 165, 1/076-2-101 Design Standard: 162, 1076-2-101 Design Standard: 162, 1076-2-101 Other Degree / IPD 3 ca. to DIN EN 80686-1 (J/DE 0110-1) Design Standard: 162, 1076-2-101 Operation Cross Parker 100, NE 08068-1 (J/DE 0110-1) Charact Drace D	Coding:	A
Mang Oyeles:i00Conductor Cross Section0.5 mmArbein Temperature Operation":a/0 °C + 90 °CRobein Temperature Polecion Degree:b/65, 1967, 1968 (1 m / 24 h), 1969KDesign Sandard:IC 61076 - 2101Design Sandard:Co 10 °C - 2101Polution Degree:ac. to DNE N60664 1 (DDE 0110-1)Concrol Degree:Jone None Section Degree:Design Carrono J, Congo MC, US DE 010-10Concrol Degree:Icac. to DNE N60664 1 (DDE 0110-1)Concrol Degree:Jone Section Degree:Concrol Degree:Gold over Congo MC, US DE 010-10-1Concrol Degree:Gold over Congo MC, US DE 010-10-1Concro Degree:Gold over Congo MC, US DE 010-10-1Concro Degree:Gold over Congo MC, US DE 010-10-10Concro Degre	Contact Resistance:	≤ 10 mOhm
Conductor Cross Section 0.50 mm ⁴ Ambient Temperature (Operation)*: 0.40 °C + 90 °C Protection Degree // PB p85, IP67, IP68 (1 m / 24 h), IP69K Design Standar: IE C6 1076-2-101 Policetion Degree // PB 3 cac. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage DIN EN 60664-1 (VDE 0110-1) Contact Base Material: Coper Alloy CuSh) Contact Base Material: Coper CuJAU) Contact Base Material: Coper CuJAU	Insulation Resistance:	> 10^9 Ohm
Ambient Temperature (Operation)*: 40 ° C + 90 ° C Protection Degree / IP Rating*: 1665, IP67, IP68 (1 m / 24 h), IP69K Design Standard: IE C 61076-2-101 Design Standard: IE C 61076-2-101 Old Degree / IP 3 cac. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: In EN 60664-1 (VDE 0110-1) Contact Base Material: Coper Alloy (CuSn) Contact Plating: Gold over Copper (Cu/Au) Contact Baser Material: Themoplastic Polyurethane (TPU) Contact Baser Material: Themoplastic Polyurethane (TPU) Contact Baser Color: Grage Molded Body Material: Themoplastic Polyurethane (TPU) Contact Baser Color: Grage Molded Body Color: Gray Consult Molded Body Material: Themoplastic Polyurethane (TPU) Molded Body Color: Gray Tassucent Fammability Class (Molded) Inscription: Molded Body Color: Gray Tassucent Fammability Class (Molded) Inscription: Molded Body Color: Gray Tassucent Fammability Class (Molded) Inscription: <td< td=""><td>Mating Cycles:</td><td>≤ 100</td></td<>	Mating Cycles:	≤ 100
(operation)*: ************************************	Conductor Cross Section:	0.50 mm ²
Rating*: Investige Design Standard: EC 61076-2-101 Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (VDE 0110-1) Convordtage Category: II acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material: Copper Alloy (CuSn) Contact Plating: Gold over Copper (Cu/Au) Contact Baser Material: Themoplastic Polyurethane (TPU) Contact Baser Material: Filemaplity Class; Contage Bearer: UL 94 HB Molded Body Material: Themoplastic Polyurethane (TPU) Molder Body Color: Gray Tanslucethane (TPU) Molder Body Material: Themoplastic Polyurethane (TPU) Molder Body Color: Gray Tanslucethane (TPU) Molder Body Color: Gray Tanslucethane (TPU) Molder Body Color: Gray Tanslucethane (TPU) Molder Body Color:	Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Polluio Sacc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage DIN EN 60664-1 (ZOB 011); VDE 0110-1 Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material: Copper Alloy (CuSn) Contact Base Material: Gold over Copper (Cu/Au) Contact Baser Material: Gold over Copper (Cu/Au) Contact Baser Material: Formoplastic Polyurethane (TPU) Contact Bearer Material: Formoplastic Polyurethane (TPU) Contact Bearer Sciol: Variage Variage Category: IL 94 HB Molded Body Material: Formoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent Fammability Class (Molt) Us 94 HB Attachment Material: Brass (CuZn) Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni)	Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Clearance, Creepage 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 (CuSh) Contact Plating: Gold over Copper (Cu/Au) Contact Bearer Material: Thermoplastic Polyurethane (TPU) Contact Bearer Color: Orange Biamability Class (Color) Greg Falloy (CuSh) Molded Body Material: Thermoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent Flamability Class (Molded Body Color: Grey Translucent Flamability Class (Molded Body Color: Grey Translucent Katchment Material: Brass (CuZn) Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni)	Design Standard:	IEC 61076-2-101
Distance: Distance: <thdistance:< th=""> Distance: <thdistance:< th=""> Distance: <thdistance:< th=""> <thdistance:< th=""> <thdis< td=""><td>Pollution Degree:</td><td>3 acc. to DIN EN 60664-1 (VDE 0110-1)</td></thdis<></thdistance:<></thdistance:<></thdistance:<></thdistance:<>	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material: Copper Alloy (CuSn) Contact Plating: Gold over Copper (Cu/Au) Contact Baser Material: Thermoplastic Polyurethane (TPU) Contact Bearer Color: Orange Flammability Class (Contact Bearer Science) Verage Flammability Class (Contact Bearer Science) Verage Molded Body Material: Thermoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent (TPU) Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Flammability Class (Molde) Ul 94 HB Molded Body Color: Grey Translucent Molded Body Color: HB <	Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Contact Plating: Gold over Copper (Cu/Au) Contact Bearer Material: Thermoplastic Polyurethane (TPU) Contact Bearer Color: Orange Flammability Class (Contatt Bearer): U. 94 HB Molded Body Material: Thermoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent (TPU) Molded Body Color: Grey Translucent Flammability Class (Molde) U. 94 HB Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M1241: (60-60) Nem, hand-tight	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
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 (Molde) UL 94 HB Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M12/11 (S0-60) Nom hand-tight	Contact Base Material:	Copper Alloy (CuSn)
Contact Bearer Color: Orange Flammability Class (Contact Bearer): Ul. 94 HB Molded Body Material: Thermoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent Flammability Class (Molde) Ul. 94 HB Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M12/11 (S0-60) Nem hand-tight	Contact Plating:	Gold over Copper (Cu/Au)
Flame Julie Flame Lise Molded Body Material: Thermoplastic Polyurethane (TPU) Molded Body Color: Grey Translucent Flammability Class (Molde) Ulie Biology Lise Flammability Class (Molde) Ulie Molded Flammability Class (Molde) Ulie Flammability Class (Molde) Ulie Mitcherent Haterial: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M12/11 (S0-60) Nem hand-tight	Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Bearer): DL 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 M12/1: (50-60) Nem hand-tight	Contact Bearer Color:	Orange
Molded Body Color: Grey Translucent Flammability Class (Molded Body): UL 94 HB Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M12/11 (50-60) Nom hand-tight	Flammability Class (Contact Bearer):	UL 94 HB
Flamability Class (Moldel Body): UL 94 HB Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M 12/11 (50-60) Nom hand-tight	Molded Body Material:	Thermoplastic Polyurethane (TPU)
Body): OL S4 HID Attachment Material: Brass (CuZn) Attachment Plating: Nickel (Ni) Fastening Torque M 1241: (50-60) Nom hand-tight	Molded Body Color:	Grey Translucent
Attachment Plating: Nickel (Ni) Fastening Torque M 12x1: (50-60) Non-band-tight	Flammability Class (Molded Body):	UL 94 HB
Fastening Torque M 12x1: (50-60) Nem hand-tight	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 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
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

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
Protective Circuit, Side 2:	Varistor (MOV)
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
Resistances	
Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Note Derating:	Notice derating
Update and Revision:	Revision Number: 0.10 Revision Date: 07-03-2025

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