



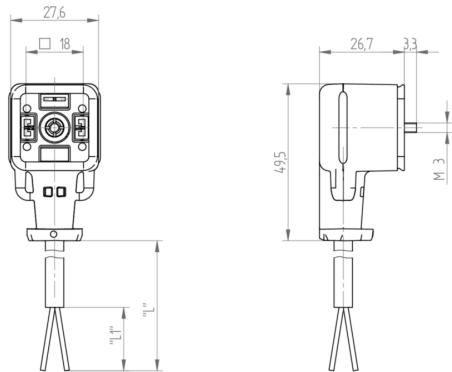
**Product:**
[GAN200U-D1U-606](#)

Form A - Female 90° | #Contacts: 2 | Recovery Diode (FRD) | 50 V | Cable: Grey (PUR); 0.75 mm²; IEC | cULus

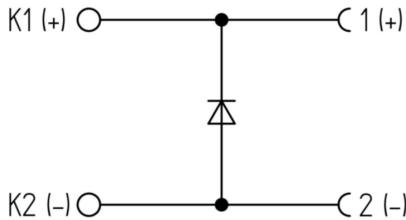
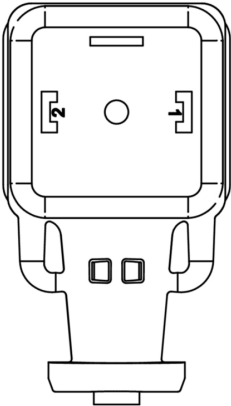
Product Description

Form A - Singled-Ended Female Angled Cordset | #Contacts: 2 | Recovery Diode (FRD) | 50 V / 10 A | Cable: Grey PUR Jacket; 2x0.75 mm² (18 AWG); IEC | UL 2238; cULus

Technical Drawing



GAN20



Technical Specifications

Product Life Cycle

Life Cycle:	Active - Product is available
Availability:	New Release

Face View

Pin 1	Pin 2
brown	blue

Technical Data

Product Family:	Valve Connectors
Product Sub Family:	GAN - cULus 2238
Brand:	Hirschmann
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Socket Contact / Female
Connector Design:	Angled (90°) Body
Number of Pins:	2
Coding:	A
Shielding:	Unshielded
Attachment Type:	Central Screw
Rated Voltage:	50 V
Rated Voltage (UL):	50 V
Rated Voltage (CSA):	50 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	50 V AC/DC
Rated Current*:	10 A
Rated Current (UL)*:	6 A
Rated Current (CSA)*:	6 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 50
Conductor Cross Section:	0.75 mm²
Ambient Temperature (Operation)*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]
Operating Temperature (UL):	max. + 85 °C
Operating Temperature (CSA):	max. + 85 °C
Protection Degree / IP Rating**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)
Design Standard:	DIN EN 175301-803-A, ISO 4400
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)

Materials

Contact Base Material:	Brass (CuZn)
Contact Plating:	Copper over Tin (Cu/Sn)
Contact Bearer Material:	Glass-filled Polyamides (PA GF)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Molded Integrated Gasket

Protection Circuitry

Protective Circuit:	Recovery Diode (FRD)
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Additional Technical Data

Fastening Torque (Attachment):	(50-60) Ncm
Accessories to Order Separately:	934887001 - GAN EPDM gasket and holding clip

Cable Data

Cable Number:	606
Conductor Size:	0.75 mm²
Number of Wires:	2
Minimal Bending Radius (Fixed Inst):	> 4 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Cycles (Bending):	> 5 mio

Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Grey
Cable Diameter D:	Ø 5.5 mm [ 0.217 " ]
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.92 mm [ 0.08 " ]
Ambient Temperature (Fixed Installation):	- 40 °C to + 90 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 20 °C to + 90 °C (UL: + 80 °C)
UL Cable Type:	AWM: 21198
Flammability Class (Cable Jacket):	IEC 60332-1, DIN VDE 0472 Teil 804 test method B; UL/CSA FT2
Cable Characteristics:	resistant against solvents, acids and alkalis, resistant against UV and ozone

Approvals

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

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Resistances

Halogenfree:	Yes
Oil Resistance:	VDE 0250 and 0472

Notes

Note Derating:	Notice derating
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:	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.

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