



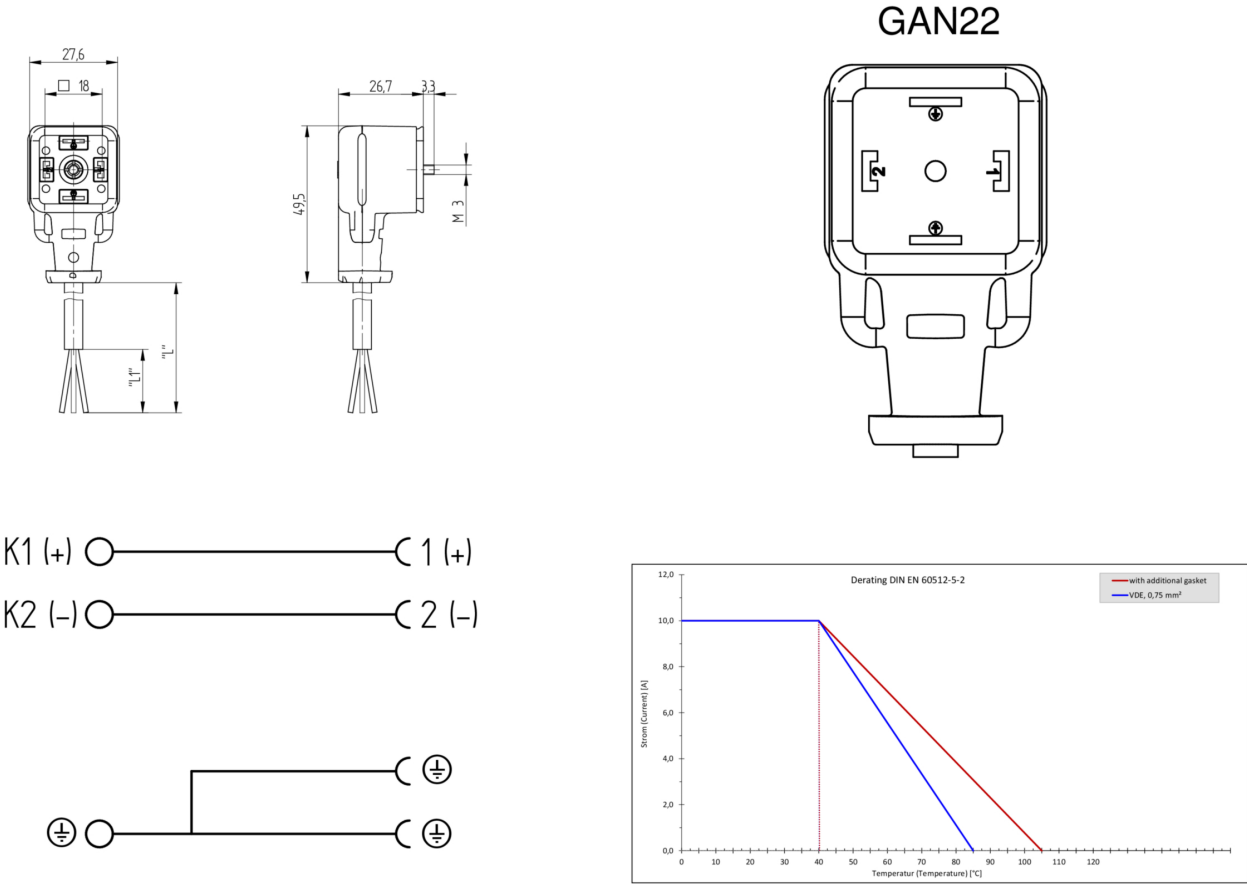
Product:
[GAN220U-A0U-603](#)

Form A - Female 90° | #Contacts: 2+2 PE | No Protective Circuit | 250 V | Cable: Grey (PUR); 0.75 mm²; IEC | cULus

Product Description

Form A - Singled-Ended Female Angled Cordset | #Contacts: 2+2 PE | No Protective Circuit | 250 V / 10 A | Cable: Grey PUR Jacket; 3x0.75 mm² (18 AWG); IEC | UL 2238; cULus

Technical Drawing



Technical Specifications

Product Life Cycle

Life Cycle:	Active - Product is available
Availability:	Active

Face View

Pin 1	Pin 2	PE1	PE2
brown	blue	green-yellow	green-yellow

Technical Data

Product Family:	Valve Connectors
Side 1 Product Sub Family:	GAN - cULus 2238
Brand:	Hirschmann
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Socket Contact / Female
Connector Design:	Angled (90°) Body
Number of Pins:	2+2 PE
Coding, Side 1:	A
Shielding Type:	Unshielded
Attachment Type:	Central Screw
Voltage Rating:	250 V
Rated Voltage (UL):	250 V
Rated Voltage (CSA):	250 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	230 V AC/DC
Current Rating:	10 A
Rated Current (UL)*:	6 A
Rated Current (CSA)*:	6 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 50
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)
Side 1 Contact Plating:	Tin over Copper (Cu/Sn)
Contact Bearer Material:	Glass-filled Polybutylene Terephthalate (PBT-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, Phillips combi slot
Gasket Material:	Molded Integrated Gasket

Protection Circuitry

Protective Circuit:	No Protective Circuit
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Additional Technical Data

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

Cable Data

Cable Number:	603
Conductor Size:	0.75 mm²
Number of Wires:	3

Minimal Bending Radius (Fixed Inst):	> 5 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 5.8 mm [0.228 "]
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: 20549 or 21198
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, CSA FT2; VDE 0472 Teil 804 Prüftart B
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; good chemical and oil resistance; Exclusion of PVC and Silicone; free of lacquer wetting disturbing substances; Coldness flexibility

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:	IEC 60811-404 , VDE 0472; VDE 0250

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	*IP Rating test performed by Belden with Belden Connectors only
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.

Variants

Item #	Item Description	Cable Length
934889583	GAN220U-A0U-6030200	2 m
934889584	GAN220U-A0U-6030500	5 m

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