



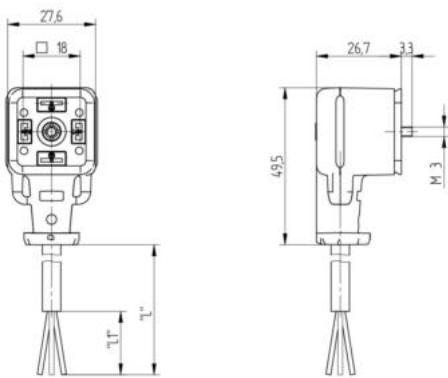
## Product: [GAN220U-A0U-603](#)

GAN - Molded Female Cordset, Form A, Contacts: 2+2PE, without Protective Circuit or LED, 250 V | 10 A, IP67; PUR Grey, 3x0.75mm<sup>2</sup> (18AWG); cULus 2238

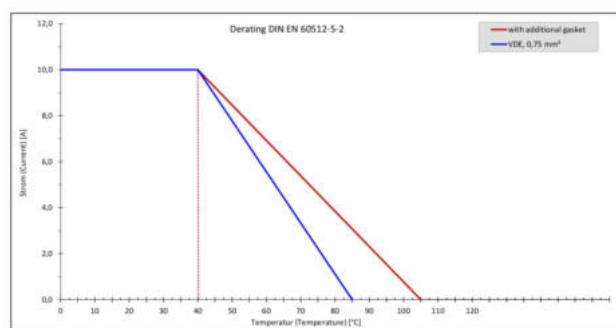
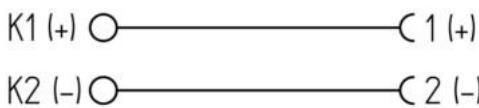
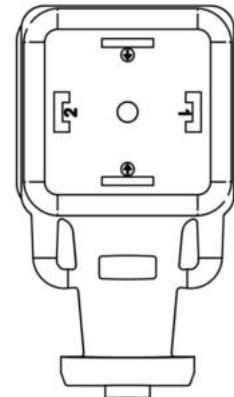
### Product Description

175301-803-A (DIN 436250-A): Single-Ended Female Cordset, Contacts: 2+2PE, without Protective Circuit or LED, 250 V | 10 A, IP67; Cable: PUR Grey, IEC, 3x0.75mm<sup>2</sup> (18AWG); cULus 2238

### Technical Drawing



GAN22



### Technical Specifications

#### Product Life Cycle

Availability: Active

#### Face View

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

## Technical Data

Product Family:	Valve Connectors
Product Sub Family:	GAN - cULus 2238
Brand:	Hirschmann
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Angled
Number of Pins:	2+2 PE
Coding:	A
Shielding:	Unshielded
Attachment Type:	Central Screw
Rated Voltage:	250 V
Rated Voltage (UL):	250 V
Rated Voltage (CSA):	250 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	230 V AC/DC
Rated Current*:	10 A
Rated Current (UL)*:	6 A
Rated Current (CSA)*:	6 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 50
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:	CuZn
Contact Plating:	Cu/Sn
Contact Bearer Material:	PA GF
Contact Bearer Color:	black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPE
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Molded Integrated Gasket

## Additional Technical Data

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

## Cable Data

Cable Number:	603
Conductor Size:	0.75 mm <sup>2</sup>
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 7.5 x D
Conductor material:	Cu
Cable Jacket Material:	PUR

Cable Jacket Color:	grey
Cable Diameter D:	$\phi 5.80 \pm 0.20$ mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	$\phi 1.92 \pm 0.05$ mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 90 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C - + 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 Prüfart 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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