



Valve Connectors Type C

Small in Size, Strong in Impact

These highly versatile rectangular connectors fit almost anywhere with their space-saving design and are engineered for applications where reliability and precision are imperative.



The Benefits

Small size – due to its compact housing design, type C valve connectors are ideally suited for use in confined spaces

Strong impact – integrated circuitries protect from inductive voltage and thus provide for a secure and reliable connection

Proven technology – valued worldwide and approved by various institutions such as UL, VDE or CSA

Markets

- Manufacturing Automation
- Machine Building
- Mobile Machinery
- Material Handling
- Transportation
- Process Automation

Technical Information

Type C	GDSN(L)/GDS(L)	VC/VCD	GSS(N)A/GSS(N)R
			
 General Data			
Standard	DIN EN 175301-803-C / Industry Standard	DIN EN 175301-803-C / Industry Standard	DIN EN 175301-803-C / Industry Standard
Assembly Design	Field attachables	Cordsets	Receptacles
Housing Color	Black, Transparent, Grey	Black, Transparent	Black
No. of Pins	2 + PE, 3 + PE	2 + 2 PE	2 + PE, 3 + PE
Cable Range	PG 7: Ø 4.5-6 mm	–	–
Cable Material	–	PUR, PVC	–
Terminal Type	Screw	–	Solder
Conductor Size	Max. 0.75 mm ²	0.5 mm ²	0.34 mm ²
 Electrical Data			
Operating Voltage¹⁾	230 V AC/DC	230 V AC/DC	230 V AC/DC
Current¹⁾	6 A	4 A	6 A
 Environmental Data			
Ambient Temperature²⁾	Black: -40 °C to +125 °C Transparent: -25 °C to +90 °C	-25 °C to +80 °C	-40 °C to +125 °C
Protection Degree	IP65	IP67	IP65
Approvals	VDE, UL, CSA, SEV	–	VDE, UL, CSA, SEV

1) In combination with circuitries values may deviate. Please review data sheet for more information.

2) Notice derating





Product Configurator

Type C Field Attachables

G D S N L **2 0 7** **L E D** **2 4** **V R** **Y E** **B L A C K**

Design

- GDSN** = Type C, female connector, field attachable, DIN standard, without circuitry
- GDSNL** = Type C, female connector, field attachable, DIN standard, with circuitry
- GDS** = Type C, female connector, field attachable, industry standard, without circuitry
- GDSL** = Type C, female connector, field attachable, industry standard, with circuitry

Pin Assignment and Cable Gland

20 = 2 + PE **30** = 3 + PE

Cable Gland

7 = PG7

LED

- = Without LED
- LED** = With LED

Voltage

24 = 24 V
120 = 110 V
230 = 230 V

Circuitry

- = Without circuitry
- VR** = Varistor

LED Color (if LED was chosen)

YE = Yellow

Connector Color

BLACK = Black housing or in case of LED, transparent housing with black cable gland
GREY = Grey housing or in case of LED, transparent housing with grey cable gland

Type C Cordsets

V C D **1 A** - **1** - **3** - **2 1 2** / **2 M**

Design

- VCD** = Type C, female connector, 2 + PE, molded, DIN standard
- VC** = Type C, female connector, 2 + PE, molded, industry standard

Pin Assignment

- 1D = No circuitry
- 1A** = Varistor, LED yellow
- 1B = Suppressor diode, LED yellow
- 1L = LED yellow

Voltage

1 = 24 V
2 = 110 V
3 = 230 V

Ground

3 = PE at 0° and 180°

Control Cable

226 = PUR, 3G0.50 mm², Black G: With PE
212 = PVC, 3G0.50 mm², Black

@ Haven't yet found the cable or length you need?
Please ask for further options at icos-sales@belden.com

Cable Length

2 M = 2 meter 5 M = 5 meter 10 M = 10 meter

Please verify your configuration @ catalog.belden.com

Order Overview – Exemplary Configurations

Type C	DIN Standard 2 + PE	DIN Standard 3 + PE	Industry Standard 2 + PE DIN	Industry Standard 3 + PE
<p>1. Choose Coding →</p> <p>2. Choose Design ↓</p>				
Field Attachables				
2 + PE, without circuitry (230 V)	GDSN 207 black	GDSN 307 black	GDS 207 black	GDS 307 black
2 + PE, with LED (24 V)	GDSNL 207 LED 24 YE black	–	–	–
2 + PE, with LED (120 V)	GDSNL 207 LED 120 YE black	–	–	–
2 + PE, with LED (230 V)	GDSNL 207 LED 230 YE black	–	–	–
2 + PE, with LED and varistor (24 V)	GDSNL 207 LED 24 VR YE black	–	–	–
2 + PE, with LED and varistor (110 V)	GDSNL 207 LED 110 VR YE black	–	–	–
2 + PE, with LED and varistor (230 V)	GDSNL 207 LED 230 VR YE black	–	–	–
Single-Ended Cordsets				
2 + PE, without circuitry (230 V), PUR cable	VCD 1D-3-3-226/* M	–	VC 1D-3-3-226/* M	–
2 + PE, with LED (24 V), PUR cable	VCD 1L-3-3-226/* M	–	VC 1L-3-3-226/* M	–
2 + PE, with LED and varistor (24 V), PUR cable	VCD 1A-1-3-226/* M	–	VC 1A-1-3-226/* M	–
2 + PE, with LED and varistor (110 V), PUR cable	VCD 1A-2-3-226/* M	–	VC 1A-2-3-226/* M	–
2 + PE, with LED and varistor (230 V), PUR cable	VCD 1A-3-3-226/* M	–	VC 1A-3-3-226/* M	–
2 + PE, with LED and suppressor diode (24 V), PUR cable	VCD 1B-1-3-226/* M	–	VC 1B-1-3-226/* M	–
Receptacles				
Rectangular for screw installation (230 V)	GSSNA 200	GSSNA 300	GSSA 200	GSSA 300
Circular for overmolding (230 V)	GSSNR 200	GSSNR 300	GSSR 200	GSSR 300

These articles are exemplary configurations. Please use our configurator on page 24 for more options.





Valve Connectors Accessories

Get the Most Out of Your Valve Connector

From low temperature gaskets up to stainless-steel non-corrosive screws, Belden offers the right accessories for almost every application.



The Benefits

More flexibility – Optimized for a large variety of challenges and environments

More functionality – Extraordinary impermeability and high environmental resistance

More comfort – Clever solutions ranging from captive gaskets up to toolless screws guarantee easy handling

Markets

- Manufacturing Automation
- Machine Building
- Mobile Machinery
- Material Handling
- Transportation
- Process Automation

Accessories Type C

Gaskets & Central Screws			GDSN	GDS	VCD	VC	GSSNA	GSSA
Product Picture	Description	Temperature	DIN Field Attachables	Industry Field Attachables	DIN Cordsets	Industry Cordsets	DIN Receptacles	Industry Receptacles

Flat Gaskets

	GDSN 307-4 NBR 50 pcs. per unit	-30 °C to +90 °C	•					
	GDSN 307-5 EPDM 50 pcs. per unit	-40 °C to +125 °C	•					
	GDS 307-2 NBR 50 pcs. per unit	-30 °C to +90 °C		•				
	GDS 307-4 EPDM 50 pcs. per unit	-40 °C to +125 °C		•				
	GSSNA 300-5 NBR 50 pcs. per unit	-30 °C to +90 °C					•	
	GSSNA 300-6 EPDM 50 pcs. per unit	-40 °C to +125 °C					•	
	GSSA 300-5 NBR 50 pcs. per unit	-30 °C to +90 °C						•
	GSSA 300-6 EPDM 50 pcs. per unit	-40 °C to +125 °C						•

Steel Phillips combi slots

	GDSN 307-3 50 pcs. per unit	-55 °C to +125 °C	•					
	GDS 307-3 50 pcs. per unit	-55 °C to +125 °C		•				