CANNON

CGL Connectors



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ENGINEERED FOR LIFE

ITT Corporation

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. The company generated 2012 revenues of \$2.2 billion. For more information, visit www.itt.com.

Our connector portfolio remains the most extensive in the industry, offering a reliable and cost effective range of interconnect solutions with the brands of Cannon, VEAM and BIW Connector Systems. Continuous investment in technology and research & development have enabled ITT to provide new, innovative products and solutions to markets including:









Commercial & Military Aerospace









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in the industry, offering a reliable and cost effective range of interconnect solutions



Introduction to CGL

Circular connectors featured by metal shells are usually only good for an operating voltage of 50 Volts. Voltages in access to that are considered to be potentially hazardous for any human body. ITT Cannon already in 1987 took appropriate measures to develop the essential design features to respond to this fact.

There was an increasing need for connectors of such nature seen in industrial applications like motors and drives and numerous other options wherever goods or things have to be moved. Usually such applications are featured by the utilization of mains power which often has to be connected.

Features and benefits

- The products in this catalogue are designed to be utilized with mains power which means 250–700 V_{RMS} depending on the insulator style and the contact arrangement.
- All the plugs and receptacles equipped with a first to mate last to break grounding contact are electrically linked to the shell.
- There are various backshell or adapter options available like PG and metric gland adapters. As there are hundreds of PG and metric gland versions on the market available we would like our valued customers to purchase these parts separately.
- The Universal Endbell is an ITT Cannon development which offers a shielding option and sealing up to IP69k.
- The 700 V products are coined by a UL certification.

Contact us for detail or your request for a customized solution.



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CGL 700 V special versions

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How to use

This catalog is split in several sections that help you to

- get a general overview of all product lines (product overview)
- get all required detail information (dimensions, product details)
- get all required support products (accessories, tooling)

The fastest way to find your product of choice is to follow these steps

First section: CGL 250V-500V (see page 7-20)

1	Select your product using the "ordering reference"	3	Add accessories and tooling as required on the related pages
2	Use the detail pages to better understand the available options and choose the best solution for your needs	4	Use the contact information on the back cover to contact us for further questions or to get advise on where you can purchase our products

Second section: CGL 700V special versions (see page 21-25)

Select your product using the "contact arrangement" on page 22
 Add contacts from the contact tables and tooling as required on the related pages
 Use the detail pages to better understand the available options and choose the best solution for your needs
 Use the contact information on the back cover to contact us for further questions or to get advise on where you can purchase our products

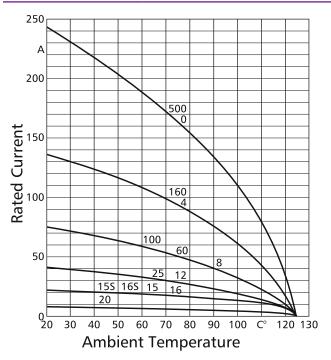


Product overview CGL 250V-500V

ated Current (A _{max} .)			
ated Current (Amax.)			
22			
22			
41			
74			
4/160 135			

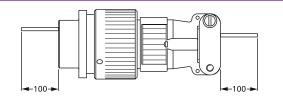
For air and creepage paths, test and operating voltage see page 10-11

Current rating



Contacts resistance

The contact resistance has to be tested acc. to VG95319 part 2, Test no 5.10.1



Conta	ct size	Contact resistance
metric	AWG	mΩ max
15S/15	165/16	6,0
25	12	3,0
60/100	8	1,0
160	4	0,3

MECHANICAL FEATURES

Ambient temperature -55/125°C (-67/257°F)

Safety provisions

Bayonet coupling: IP 68 acc. to ISO 20653 (1 bar pressure within 16 hours) Threaded coupling: IP65 acc. to ISO 20653

Vibration test

200 m/s² at 10-2000 Hz

Mating cycles

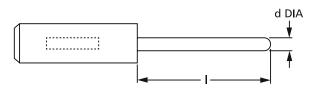
min. 500

Separating force per contact

The separating force has to be measured acc. to VG 95319 part 2, test no 5.7. using the required test gage.

Conta	ct size	Separating	force
metric	AWG	N min	Gage
15S/15	16S/16	1,0	G 1,56
25	12	1,5	G 2,36
60/100	8	3,0	G 3,58
160	4	4,0	G 5,69

Gage see also VG95234 Part 1



Gage	d DIA	I	
	+0,01	-1	
G 1,56	1,56	9	
G 2,36	2,36	12	
G 3,58	3,58	13	
G 5,69	5,69	13	

Contact retention

The contact retention has to be tested acc. to VG95319 part 2, Test no 5.4. Apply test force in mating direction

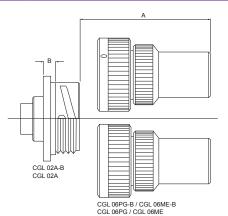
Contact size		Test force	
metric	AWG	N	
155/15	165/16	35	
25	12	55	
60/100	8	80	
160	4	90	

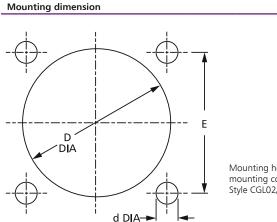


Product overview CGL 250V-500V

MECHANICAL FEATURES (continued)

Separating and mating force





MECHANICAL FEATURES (continued)

Mounting holes for box mounting connectors, Style CGL02/CGL02-B

Shell size	A	В	Shell size	CO	GL02	CO	GLO2-B	CGL02/CGL02-B
	min.	max		ØD H12	ØD H13	ØD H12	ØD H13	E±0,1
10SL	80	7,2	10SL	16,0	3,1	18,5	3,2	18,2
18	90	7,2	18	28,7	3,1	31,1	3,2	27,0
20	100	7,2	20	31,8	3,1	34,5	3,2	29,4
22	100	8,0	22	35,0	3,1	37,8	3,2	31,8
24	110	9,5	24	38,2	3,7	41,3	3,7	34,9
28	110	9,5	28	44,5	3,7	47,1	3,7	39,7

Coupling torques

The allowable coupling torques have to be tested under full bundle conditions of the connectors acc. to VG95319 part 2, Test no. 5.8.2.

Shell size	Allowable coupling torque Nm		
	Closing and opening CGL-B max.	Opening CGL/CGL-B min.	
10SL	1,7	0,23	
18	8,0	0,58	
20	9,0	0,70	
22	11,0	0,80	
24	14,0	0,80	
28	17,0	0,92	



Ordering reference

Part number explanation		CGL 08	11 E ד' ר	۷2 ۲۲	8 A.		.– B	– F{	30 D	14 [;] T ''	***
Series											
Shell type											
02 – box mounting receptacle with square flange	see page 12										
06 – straight plug	see page 13										
08 – plug with 90° adapter	see page 14										
Class											
IN – Universal Endbell (nickel plated)											
PG – with PG adapter (nickel plated)											
ME – with metric adapter (nickel plated)											
A – without endbell (style 02 only)											
Shell size											
10SL, 18, 20, 22, 24, 28											
Contact arrangement	see page 10–11										
Contact type											
P – pin						 1					
S – socket											
Performance class											
D1 – Grounding contact											
Insulator type											
L – long insulator = 250 V/500 V							-				
Bayonet coupling (for threaded version: omit indication)											
Contacts*											
F80 – crimp contacts											
Outer cable diameter (Universal Endbell only)											
Modification											
F0 – without contacts											
F42 – without endbell											

*Crimp contacts are solderable



CONTACT ARRANGEMENTS

Shell size	Figure	Contact arrangement	Contact number Contact size	Grounding contact in cavity	Admissible operating voltage (VAC)	Examples of available connectors
OSL						CGL02A10SL-3P-C1L***
USL		10SL-3	3 16S	С	250	CGL06PG10SL-3S-C1L-***
						CGL02A18-10P-D1L-***
8						CGL02A18-10S-D1L-***
		40.40	4	5	500	CGL06PG18-10P-D1L-***
		18-10	12	D	500	CGL06PG18-10S-D1L-***
						CGL08PG18-10S-D1L-***
	\bigcirc					CGL06IN18-10S-D1L-***
						CGL02A18-11P-C1L-***
			5	_		CGL06PG18-11S-C1L-***
		18-11	12	C	500	CGL08PG18-11S-C1L-***
•						CGL02A20G10P-A1L-***
0			10		100	CGL02A20G10S-A1L-***
		20G10	10x16	А	400	CGL06PG20G10P-A1L-***
	•					CGL06PG20G10S-A1L-***
						CGL02A22-22P-D1L-***
2	D A					CGL02A22-22S-D1L-***
		22-22	4	D	500	CGL06PG22-22P-D1L-***
	$\mathbf{\bullet}$		8			CGL06PG22-22S-D1L-***
						CGL08PG22-22S-D1L-***
						CGL02A22-23P-D1L-***
	F G A					CGL02A22-23S-D1L-***
		22-23	8 12	D	400	CGL06PG22-23P-D1L-***
	\\		12			CGL06PG22-23S-D1L-***
						CGL08PG22-23S-D1L-***
	A					CGL02AH24G8P-A1L-***
4	G H B		8			CGL02AH24G8S-A1L-***
	∭ [€] • • • •)	24G8*	12	А	400	CGL06PGH24G28P-A1L-***
	E D					CGL06PGH24G28S-A1L-***
						CGL02A28A16P-D1L-***
8			9			CGL02A28A16S-D1L-***
		28A16	4x4 5x36	D	400	CGL06PG28A16P-D1L-***
			טכגכ			CGL06PG28A16S-D1L-***
						CGL02AH28G24P-A1L-***
			24			CGL02AH28G24S-A1L-***
		28G24* 4x12 20x16		A	500	CGL06PGH28G24P-A1L-***
			20X16			CGL06PGH28G24S-A1L-***

* The insulator material is FKM.

***Modification codes please see ordering reference, page 9



CONTACT ARRANGEMENTS

LAYOUT SPECIFIC D	ΑΤΑ					
Contact arrangement		Min.air distance	e (mm) / mating f	ace	Rated Voltage	
	Power-Contact	Power-Grounding	Signal-Contact	Signal-Grounding	Class	
10SL-3	3,3	3,3	-	-	250 V	
18-10	5,0	5,0	-	-	500 V	
18-11	5,0	5,0	-	-	500 V	
20G10	4,3	4,0	-	-	400 V	
22-22	6,1	5,4	-	-	500 V	
22-23	4,3	4,0	-	-	400 V	
24G8	5,9	4,0	-	-	400 V	
28A16	8,0	4,6	6,1	5,0	400 V	
28G24	7,5	5,6	3,4	2,7	500 V	

Contact arrangement	M	in. creepage dista	nce (mm) / matir	ng face	Rated Voltage
	Power-Contact	Power-Grounding	Signal-Contact	Signal-Grounding	Class
10SL-3	3,3	3,3	-	-	250 V
18-10	5,0	5,0	-	-	500 V
18-11	5,0	5,0	-	-	500 V
20G10	4,3	4,3	-	-	400 V
22-22	6,1	6,1	-	-	500 V
22-23	4,3	4,3	-	-	400 V
24G8	5,9	4,0	-	-	400 V
28A16	8,0	4,6	6,1	5,0	400 V
28G24	7,5	5,6	3,4	2,7	500 V

Admissible operating voltage

The admissible operating voltages indicated in this catalogue are mainly based on customer information for certain projects. The tables above indicate the actual value for the air and creepage distances and can be used as a calculation basis in connection with DIN EN 61984. All the plugs and receptacles equipped with a first to mate last to break grounding contact are electrically linked to the shell.

Basis and assumptions

The pollution degree for industrial plants is normally "3". However, the calculation of the admissible operating voltage is based on the pollution degree "2", as the connectors are completely sealed and the contact parts are not subject to direct contamination or humidity.

Caculation basis for rated connector impulse voltage

Overvoltage category 250/500 V III Material class 250/500 V III

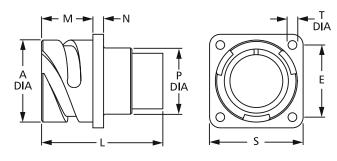


BOX MOUNTING RECEPTACLE CLASS E CGL02

CGL02A-B with bayonet coupling

CGL02-B is a box mounting receptacle for front panel mounting. It mates with plugs CGL06-B and CGL08-B





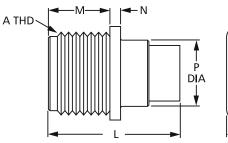
Part No. (pin insert)	ØA	E	L	М	N	ØР	S	ØТ
	max.	±0,1	max.	+0,4	±0,3	max.	± 0,3	+0,2/-0,1
CGL02A10SL-3P-C1L-B-F80	18,2	18,2	33,6	14,2	2,8	16,2	25,4	3,2
CGL02A18-10P-D1L-B-F80	30,8	27,0	46,0	19,0	4,0	25,6	35,0	3,2
CGL02A18-11P-C1L-B-F80	30,8	27,0	33,8	19,0	4,0	25,6	35,0	3,2
CGL02A20G10P-A1L-B-F80	34,2	29,4	33,8	19,0	4,0	29,0	38,0	3,2
CGL02A22-22P-D1L-B-F80	37,4	31,8	46,0	19,0	4,0	32,2	41,0	3,2
CGL02A22-23P-D1L-B-F80	37,4	31,8	46,0	19,0	4,0	32,2	41,0	3,2
CGL02AH24G8P-A1L-B-F80	40,9	34,9	46,0	20,6	4,0	35,3	44,5	3,7
CGL02A28A16P-D1L-B-F80	46,7	39,7	46,0	20,6	4,0	41,4	50,8	3,7
CGL02AH28G24P-A1L-B-F80	46,7	39,7	46,0	20,6	4,0	41,4	50,8	3,7
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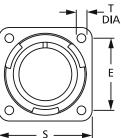
For socket inserts substitute P with S

CGL02A with threaded coupling

CGL02A is a box mounting receptacle for front panel mounting. It mates with plugs CGL06 and CGL08







Part No. (pin insert)	A	E	L	Μ	N	ØΡ	S	ØТ
	Thread	$\pm 0,1$	max.	+0,4	±0,3	max.	±0,3	+0,2/-0,1
CGL02A10SL-3P-C1L-F80	5/8-24UNEF-2A	18,2	33,6	14,2	2,8	15,9	25,4	3,1
CGL02A18-10P-D1L-F80	1-1/8-18UNEF-2A	27,0	46,0	19,0	4,0	25,4	35,0	3,1
CGL02A18-11P-C1L-F80	1-1/8-18UNEF-2A	27,0	46,0	19,0	4,0	25,4	35,0	3,1
CGL02A20G10P-A1L-F80	1-1/4-18UNEF-2A	29,4	47,0	19,0	4,0	29,0	38,0	3,1
CGL02A22-22P-D1L-F80	1-3/8-18UNEF-2A	31,8	46,0	19,0	4,0	32,2	41,0	3,1
CGL02A22-23P-D1L-F80	1-3/8-18UNEF-2A	31,8	46,0	19,0	4,0	32,2	41,0	3,1
CGL02AH24G8P-A1L-F80	1-1/2-18UNEF-2A	34,9	46,0	20,6	4,0	35,3	44,5	3,7
CGL02A28A16P-D1L-F80	1-3/4-18UNS-2A	39,7	46,0	20,6	4,0	41,2	50,8	3,7
CGL02AH28G24P-A1L-F80	1-3/4-18UNS-2A	39,7	46,0	20,6	4,0	41,2	50,8	3,7

For socket inserts substitute P with S



W THD

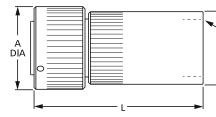
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STRAIGHT PLUG CLASS PG CGL06

CGL06PG/ME-B with bayonet coupling

CGL06PG/ME-B designates a straight plug for the use of heat shrink boots or PG terminations (optional a metric adapter is available). It mates with receptacle CGL02A-B





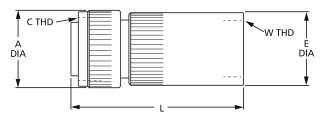


Part No. (socket insert)	ØA	ØE	L	١	W
	max.	max.	max.	PG Thread	ME Thread
CGL06PG10SL-3S-C1L-B-F80	22,8	21,0	58,0	PG9	M16x1,5
CGL06PG18-10S-D1L-B-F80	36,5	32,0	70,0	PG21	M 25 x 1,5
CGL06PG18-11S-C1L-B-F80	36,5	32,0	70,0	PG21	M25x1,5
CGL06PG20G10S-A1L-B-F80	39,9	32,0	77,0	PG21	M25x1,5
CGL06PG22-22S-D1L-B-F80	43,1	32,0	82,0	PG21	M 32 x 1,5
CGL06PG22-23S-D1L-B-F80	43,1	32,0	82,0	PG21	M32x1,5
CGL06PGH24G8S-A1L-B-F80	46,6	40,0	82,0	PG28	M32x1,5
CGL06PG28A16S-D1L-B-F80	53,4	50,0	87,0	PG36	M32x1,5
CGL06PGH28G24S-A1L-B-F80	53,4	50,0	87,0	PG36	M32x1,5
For pin inserts substitute S with P					For ME-adapter substitute PG with ME

CGL06PG/ME with threaded coupling

CGL06PG/ME designates a straight plug for the use of heat shrink boots or PG terminations (optional a metric adapter is available). It mates with receptacle CGL02A.







Part No. (socket insert)	ØА	С	Ø E	L	١	N
	max.	Thread	max.	max.	PG Thread	ME Thread
CGL06PG10SL-3S-C1L-F80	24,1	5/8-24UNEF-2B	21,0	60,0	PG9	M16x1,5
CGL06PG18-10S-D1L-F80	36,5	1-1/8-18UNEF-2B	32,0	70,0	PG21	M25x1,5
CGL06PG18-11S-C1L-F80	36,5	1-1/8-18UNEF-2B	32,0	70,0	PG21	M25x1,5
CGL06PG20G10S-A1L-F80	37,3	1-1/4-18UNEF-2B	32,0	77,0	PG21	M25x1,5
CGL06PG22-22S-D1L-F80	43,1	1-3/8-18UNEF-2B	32,0	82,0	PG21	M32x1,5
CGL06PG22-23S-D1L-F80	40,5	1-3/8-18UNEF-2B	32,0	82,0	PG21	M32x1,5
CGL06PGH24G8S-A1L-F80	43,7	1-1/2-18UNEF-2B	40,0	82,0	PG29	M32x1,5
CGL06PG28A16S-D1L-F80	50,0	1-3/4-18UNS-2B	50,0	87,0	PG36	M32x1,5
CGL06PGH28G24S-A1L-F80	50,0	1-3/4-18UNS-2B	50,0	87,0	PG36	M32x1,5
For pin inserts substitute S with F)					For ME-adapter substitute PG with ME

For pin inserts substitute S with P

For ME-adapter substitute PG with ME

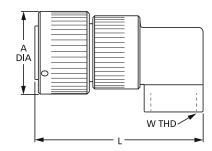


90° PLUG CLASS PG CGL08

CGL08PG-B with bayonet coupling

CGL08PG-B designates a 90° plug for the use of heat shrink boots or PG terminations. It mates with receptacle CGL02A-B (metric thread option not available)







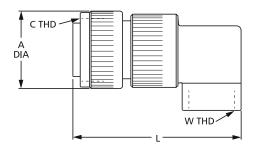
Part No. (pin Insert)	ØA	L	W	
	max.	max.	PG Thread	
CGL08PG10SL-3P-C1L-B-F80	22,8	57,0	PG9	
CGL08PG18-10P-D1L-B-F80	36,5	77,0	PG16	
CGL08PG18-11P-C1L-B-F80	36,5	77,0	PG16	
CGL08PG20G10P-D1L-B-F80	39,9	82,0	PG21	
CGL08PG22-22P-D1L-B-F80	43,1	82,0	PG21	
CGL08PG22-23P-F1L-B-F80	43,1	82,0	PG21	
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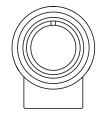
For socket inserts substitute P with S

CGL08PG with threaded coupling

CGL08PG designates a 90° plug for the use of heat shrink boots or PG terminations. It mates with receptacle CGL02A (metric thread option not available)







Part No. (pin Insert)	ØΑ	C	L	W
	max.	Thread	max.	PG Thread
CGL08PG10SL-3P-C1L-F80	24,1	5/8-24UNEF-2B	57,0	PG9
CGL08PG18-10P-D1L-F80	34,1	1-1/8-18UNEF-2B	77,0	PG16
CGL08PG18-11P-C1L-F80	34,1	1-1/8-18UNEF-2B	77,0	PG16
CGL08PG20G10P-D1L-F80	37,4	1-1/4-18UNEF-2B	82,0	PG21
CGL08PG22-22P-D1L-F80	40,5	1-3/8-18UNEF-2B	82,0	PG21
CGL08PG22-23P-F1L-F80	40,5	1-3/8-18UNEF-2B	82,0	PG21

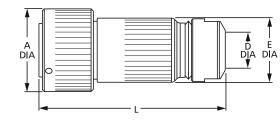
For socket inserts substitute P with S



CONNECTORS WITH UNIVERSAL ENDBELL, STRAIGHT PLUG

CGL06IN-B with bayonet coupling





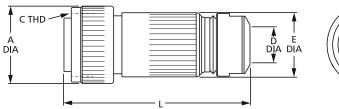


ØA	Ø E	L	Cable entry diameter D	Cable sealing area
max.	±0,2	max.		
22,8	17,9	82	D07 = 4,5 mm - 7,2 mm	D07
36,5	30,0	88	D11 = 8,0 mm - 10,3 mm	D11, D13, D14
36,5	30,0	88	D13 = 9,0 mm - 12,5 mm	D11, D13, D14
39,9	33,6	92	D14=11,5mm-14,2mm	D13, D14, D17
43,1	33,6	98	D17=14,5mm-16,6mm	D14, D17, D19
43,1	33,6	98	D19=16,1mm-18,4mm	D14, D17, D19
53,4	33,6	105	D20=17,8mm-20,0mm	D14, D17, D19, D20
53,4	33,6	105		D14, D17, D19, D20
	max. 22,8 36,5 36,5 39,9 43,1 43,1 53,4	max. ±0,2 22,8 17,9 36,5 30,0 36,5 30,0 39,9 33,6 43,1 33,6 43,1 33,6 53,4 33,6	max. ±0,2 max. 22,8 17,9 82 36,5 30,0 88 36,5 30,0 88 39,9 33,6 92 43,1 33,6 98 43,1 33,6 98 53,4 33,6 105	max. ±0,2 max. 22,8 17,9 82 D07 = 4,5 mm - 7,2 mm 36,5 30,0 88 D11 = 8,0 mm - 10,3 mm 36,5 30,0 88 D13 = 9,0 mm - 12,5 mm 39,9 33,6 92 D14 = 11,5 mm - 14,2 mm 43,1 33,6 98 D19 = 16,1 mm - 16,6 mm 43,1 33,6 98 D19 = 16,1 mm - 18,4 mm 53,4 33,6 105 D20 = 17,8 mm - 20,0 mm

For socket inserts substitute P with S

CGL06IN with threaded coupling





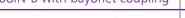


Part No. (pin Insert)	ØA	Ø E	L	С	Cable entry diameter D	Cable sealing area
	max.	±0,2	max.	Thread		
CGL06IN10SL-3P-C1L-F80	22,8	17,9	82,0	5/8-24UNEF-2B	D07 = 4,5 mm - 7,2 mm	D07
CGL06IN18-10P-D1L-F80	36,5	30,0	88,0	1-1/8-18UNEF-2B	D11 = 8,0 mm - 10,3 mm	D11, D13, D14
CGL06IN18-11P-C1L-F80	36,5	30,0	88,0	1-1/8-18UNEF-2B	D13 = 9,0 mm - 12,5 mm	D11, D13, D14
CGL06IN20G10P-A1L-F80	39,9	33,6	92,0	1-1/4-18UNEF-2B	D14=11,5mm-14,2mm	D13, D14, D17
CGL06IN22-22P-D1L-F80	43,1	33,6	98,0	1-3/8-18UNEF-2B	D17=14,5mm-16,6mm	D14, D17, D19
CGL06IN22-23P-D1L-F80	40,5	33,6	98,0	1-3/8-18UNEF-2B	D19=16,1mm-18,4mm	D14, D17, D19
CGL06IN28-A16P-D1L-F80	53,4	33,6	105,0	1-3/4-18UNS-2B	D20=17,8mm-20,0mm	D14, D17, D19, D2
CGL06INH28G24P-A1L-F80	53,4	33,6	105,0	1-3/4-18UNS-2B		D14, D17, D19, D2

For socket inserts substitute P with S

CONNECTORS WITH UNIVERSAL ENDBELL, 90°-VERSION

CGL08IN-B with bayonet coupling



CGL08IN with threaded coupling



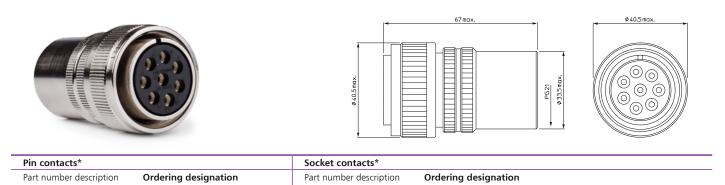
For more information please contact your local ITT customer service.





CA (CGL) 300V #22, SPECIAL VERSION

STRAIGHT PLUG WITH SHORT PG GLAND ADAPTER PIN AND SOCKET CONTACTS*



CA06COM-E22-23S-F0-SPL

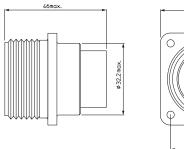
CA120001-48

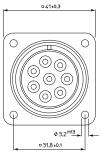
WALL MOUNTING RECEPTACLE PIN AND SOCKET CONTACTS*

CA120001-47



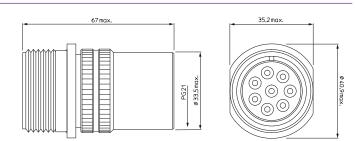
CA06COM-E22-23P-F0-SPL





Pin contacts*		Socket contacts*	
Part number description	Ordering designation	Part number description	Ordering designation
CA02COM-E22-23P-F0-SPL	CA120001-49	CA02COM-E22-23S-F0-SPL	CA120001-50

CABLE CONNECTING PLUG WITH SHORT PG GLAND ADAPTER PIN CONTACTS*



Pin contacts*

Part number description	Ordering designation
CA01COM-E22-23P-F0-SPL	CA120001-51

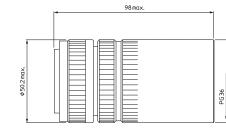
*Ordering table for contacts (Contacts to be ordered separately)							
Number of contacts permitted	Contact size	Terminal size	Socket contact crimp	Pin contact crimp	Grounding screw		
7	12	0,5²	031-8557-040	330-8515-104	-		
7	12	1,5²	031-8557-020	330-8515-102	-		
7	12	2,5²	031-8557-000	330-8515-101	-		
7	12	4,0 ²	031-8557-010	330-8515-103	-		
7	12	6,0²	031-8557-030	330-8515-105	-		
1	12 Ground	0,5²	031-8665-020	330-8723-022	250-8501-023		
1	12 Ground	1,5²	031-8665-021	330-8723-023	250-8501-023		
1	12 Ground	2,5²	031-8665-010	330-8723-010	250-8501-023		
1	12 Ground	4,0 ²	031-8665-002	330-8723-003	250-8501-023		
1	12 Ground	6,0²	031-8665-024	330-8723-026	250-8501-023		

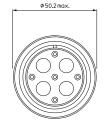


Ø 50 max

STRAIGHT PLUG WITH SHORT PG ADAPTER PIN AND SOCKET CONTACTS*



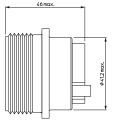


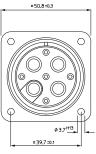


Pin contacts*		Socket contacts*	
Part number description	Ordering designation	Part number description	Ordering designation
CA06COM-E28-2009-16P-F0-SPL	CA120001-52	CA06COM-E28-2009-16S-F0-SPL	CA120001-53

WALL MOUNTING RECEPTACLE, PIN AND SOCKET CONTACTS*



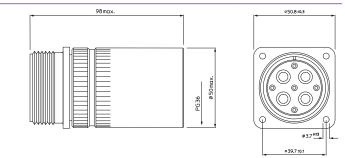




Pin contacts*		Socket contacts*	
Part number description	Ordering designation	Part number description	Ordering designation
CA02COM-E28-16P-2009-F0-SPL	CA120001-54	CA02COM-E28-16S-2009-F0-SPL	CA120001-55

CABLE CONNECTING PLUG WITH SHORT PG GLAND ADAPTER PIN CONTACTS*





Pin contacts*

Part number description CA00COM-E28-2009-16P-F0-SPL

Ordering designation CA120001-56

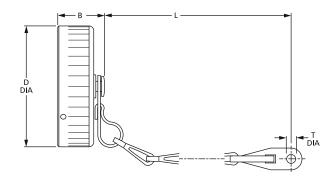
*Ordering table for contacts (Contacts to be ordered separately)							
Number of contacts permitted	Contact size	Terminal size	Socket contact crimp	Pin contact crimp	Grounding screw		
5	16	0,5 ²	031-8639-120	330-8659-000	-		
5	16	1,5 ²	031-8556-110	030-8587-000	-		
3	4	10,0 ²	031-8560-020	030-8658-010	-		
3	4	16,0²	031-8560-000	030-8658-020	-		
1	4 Ground	10,0 ²	031-8502-003	030-8593-002	250-8501-023		
1	4 Ground	16,0 ²	031-8502-002	030-8593-003	250-8501-023		



ACCESSORIES

PROTECTIVE CAPS for receptacles with bayonet coupling





Part No.	Shell size	В	ØD	L	ØТ	
		max.	max.	±10	+0,5	
CA121003-701	10SL	19,5	23,4	100	4,3	
CA121003-706	18	24,5	36,7	113	4,3	
CA121003-707	20	24,5	40,1	127	4,3	
CA121003-708	22	24,5	43,3	127	4,3	
CA121003-709	24	24,5	46,8	127	4,3	
CA121003-710	28	24,5	52,6	169	5,5	

PROTECTIVE CAPS for receptacles with threaded coupling

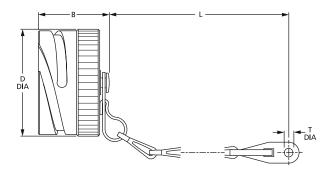




ACCESSORIES

PROTECTIVE CAPS for plugs with bayonet coupling

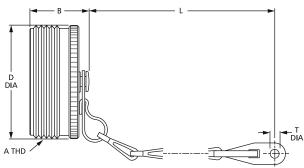




Part No.	Shell size	В	ØD	L	ØТ	
		max.	max.	± 10	+0,5	
CA121004-701	10SL	29,0	20,7	100	4,3	
CA121004-706	18	37,0	33,3	127	4,3	
CA121004-707	20	37,0	36,7	140	4,7	
CA121004-708	22	37,0	39,9	140	4,7	
CA121004-709	24	37,0	43,4	140	4,7	
CA121004-710	28	37,0	49,2	197	4,7	

PROTECTIVE CAPS for plugs with threated coupling





Part No.	Shell size	A	В	L	ØТ	ØD	
		Thread	max	max	+0,4	max.	
CA121004-601	10SL	5/8-24UNEF-2A	20,5	16,7	107	4	
CA121004-606	18	1-1/8-18UNEF-2A	25,0	29,4	120	4	
CA121004-607	20	1-1/4-18UNEF-2A	25,0	32,5	134	4,8	
CA121004-608	22	1-3/8-18UNEF-2A	25,0	35,7	134	4,8	
CA121004-609	24	1-1/2-18UNEF-2A	25,0	38,9	147	4,8	
CA121004-610	28	1-3/4-18UNS-2A	25,0	45,2	207	4,8	



TOOLING



HYDRAULIC HAND CRIMPING TOOL HPW400U-ITT

for crimping contacts of size 60/100/8, 160/4 and 500/0. Order No. 121586-5257



CRIMP DIE

Contact size	Crimp dies for hydraulic tool	Wrench Size	Locator
60/100/8	CT 121586-5231	5,20	CT 121586-5232
160/4	CT 121586-5230	7,25	CI 121500-5252



HAND CRIMPING TOOL M22520-1/01 for contacts 0,75-6,0 mm² Order No. 121586-5257

CRIMP LOCATOR TH452* Order No. 995-0002-052

HAND CRIMPING TOOL CCT-CGF-E for ground contacts 0,75–6,0 mm² Order No. 121586-0087

*modified locators are available for connectors shown on page 16–17. Please contact factory!



INSERTION TOOLS

Description	Name	Order No. ref.				
Insertion tool for contact size #16	16CIT-1612	121086-3008				
Insertion pliers for contact size #16	CIT-F80-16	121086-0097				
Insertion tool for contact size #12	CIT-12	121086-3007				
Insertion pliers for contact size #12	CIT-F80-12	121086-0096				
Insertion tool for contact size #8	CIT-8	121086-0095				
Insertion tool for contact size #4	CIT-4	121086-0094				
Guide pin #12		27977-12T8				
Guide pin #16		27977-16T50				
Extraction tool for #16	CET-F80-16	121086-0081				
Extraction tool #12	CET-F80-12	121086-0080				
Extraction tool #8	CET-8	121086-0079				
Extraction tool #4	CET-4	121086-0078				



Product overview CGL 700V

700 V POWER INPUT CONNECTOR

Specification	CGL #II (28-11)	CGL #III (36-11)
Electrical conditions		
Operating voltage	700 V (DC)	700 V (DC)
Insulation category (DIN/VDE 0110)	II	
Degree of pollution (DIN/VDE 0110)	3	3
Rated insulation voltage (DIN/VDE 0110)	7,2 KV	7,2 KV
Insulation resistance	20-80TΩ (Tera=10 ¹²)	20-80TΩ (Tera=10 ¹²)
Temperature range	-50/140°C	–50/140°C
Current rating		
Power contacts	41 A	100 A
Signal contacts	22 A	22 A
Mating cycles	500 min.	500 min.
Degree of protection by enclosures		
ISO 20653	IP67 (mated condition)	IP67 (mated condition)
Contact arrangement/Plating/Terminati	on	
Number of contacts	3 Power, 1 Ground, 7 Signal	3 Power, 1 Ground, 7 Signal
Contact plating	Silver	Silver
Wire size	Crimp 2,5/4/6 mm ²	Crimp 6/10/16/25 mm ²
Grounding (pin first to mate last to break)	Crimp 2,5/4/6 mm ²	Crimp 6/10/16/25 mm ²
Signal contacts	Crimp 1,5 mm ²	Crimp 1,5 mm ²
Receptacle housing and straight plug		
Coupling system	Bayonet	Bayonet
Plating	Nickel	Nickel
Polarization	5 key way	5 key way
Material	Aluminium alloy	Aluminium alloy
Available types	see pages 23	see pages 24
Insulator		
Material	Plastic (UL94-V0)	Plastic (UL94-V0)
Design	Fully insulated pin contact for increased creepage distance	Fully insulated pin contact for increased creepage distance
Contact insertion extraction principle	Rear release	Rear release
Sealing gaskets		
Material	Fluor elastomere	Fluor elastomere





CONTACT ARRANGEMENTS

Shell size	Figure	Contact arrangement	Contact number Contact size	Grounding contact in cavity	Admissible operating voltage (VAC)	Available connectors
20						CGL66PG28-11P-E1D-B-F0-SPL
28	H B F	28-11	11 4x12 7x16	D	700	CGL66PG28-11S-E1D-B-F0-SPL
						CGL61PG28-11P-E1D-B-F0-SPL
	Ø ₿ I					CGL62A28-11P-E1D-B-F0-SPL
						CGL62A28-11S-E1D-B-FO-SPL
			11			CGL66PG36-11S-E1D-B-F0-SPL
36						CGL61PG36-11P-E1D-B-F0-SPL
		36-11	4x4	D	700	CGL62A36-11P-E1D-B-F0-SPL
	M b	Mi B L	7x16			CGL66PG36-11P-E1D-B-F0-SPL
						CGL62A36-11S-E1D-B-F0-SPL

LAYOUT SPECIFIC DATA								
Contact arrangement	Min.air distance	e (mm)/mating face	Min. creepage dis	tance (mm)/mating face	Rated Voltage			
	Power-Contact	Power-Grounding	Power-Power	Power-Grounding	Class			
28-11	19,7	12,5	19,7	12,5	700 V			
36-11	10,3	10,3	10,3	10,3	700 V			

Admissible operating voltage

The admissible operating voltages indicated in this catalogue are mainly based on customer information for certain projects. The table aboved indicates the actual value for the air and creepage paths and can be used as a calculation basis in connection with DIN EN 61984. All the plugs and receptacles equipped with a first to mate last to break grounding contact are electrically linked to the shell.

Basis and assumptions

The pollution degree for industrial plants is normally "3". However, the calculation of the admissible operating voltage is based on the pollution degree "2", as the connectors are completely sealed and the contact parts are not subject to direct contamination or humidity.

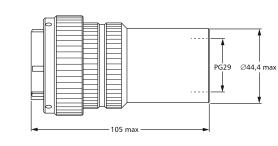
Caculation basis for rated connector impulse voltage

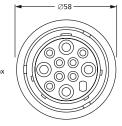
Overvoltage category 700 V III Material class 700 V II



STRAIGHT PLUG WITH PG GLAND ADAPTER PIN AND SOCKET CONTACTS*

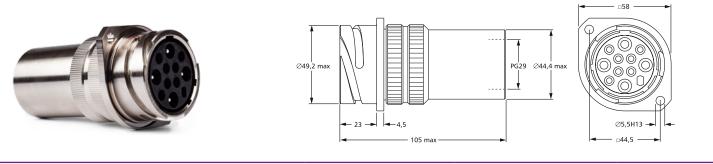






Pin contacts*		Socket contacts*		
Part number description	Ordering designation	Part number description	Ordering designation	
CGL66PG28-11P-E1D-B-F0-SPL	CGL 120015-9	CGL66PG28-11S-E1D-B-FO-SPL	CGL120015-8	

CABLE CONNECTING PLUG WITH PG GLAND ADAPTER PIN CONTACTS*

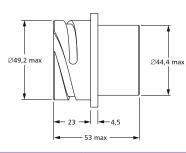


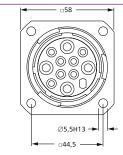
Pin contacts*

Part number description CGL61PG28-11P-E1D-B-F0-SPL Ordering designation CGL120015-10

WALL MOUNTING RECEPTACLE PIN AND SOCKET CONTACTS*







Pin contacts*		Socket contacts*	
Part number description	Ordering designation	Part number description	Ordering designation
CGL62A28-11P-E1D-B-F0-SPL	CGL120015-11	CGL62A28-11S-E1D-B-F0-SPL	CGL120015-12

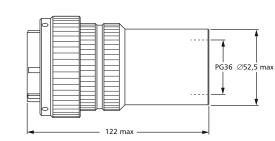
*Ordering table for contacts (*Ordering table for contacts (Contacts to be ordered separately)							
Number of contacts permitted	Contact size	Terminal size	Socket contact crimp	Pin contact crimp	Grounding screw			
3	12	2,5²	031-8716-021	030-8719-049	-			
3	12	4,0 ²	031-8716-022	030-8719-070	-			
3	12	6.0 ²	031-8716-025	030-8719-071	-			
1	12 Ground	2,5²	031-8716-031	030-8719-074	250-8501-023			
1	12 Ground	4,0 ²	031-8716-032	030-8719-075	250-8501-023			
1	12 Ground	6,0²	031-8716-033	030-8719-076	250-8501-023			
7	16	1,5²	031-8716-019	030-8719-045	-			

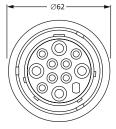




STRAIGHT PLUG WITH PG GLAND ADAPTER PIN AND SOCKET CONTACTS*





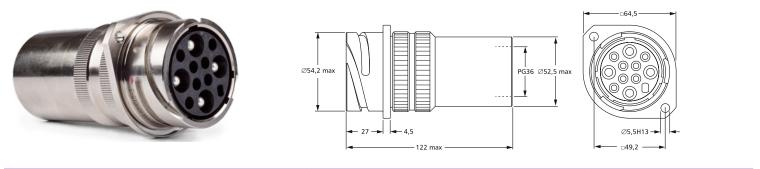


Pin contacts*	
Part number description	Ordering designation
CGL66PG36-11P-E1D-B-F0-SPL	CGL120015-2

Socket contacts*Part number descriptionOrderinCGL66PG36-11S-E1D-B-F0-SPLCGL12

Ordering designation CGL120015-1

CABLE CONNECTING PLUG WITH PG GLAND ADAPTER PIN CONTACTS*



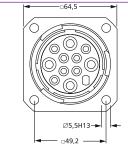
Pin contacts*

Part number description CGL61PG36-11P-E1D-B-F0-SPL Ordering designation CGL120015-3

WALL MOUNTING RECEPTACLE PIN AND SOCKET CONTACTS*



Ø54,2 max -27 - -4,5-65 max



Pin contacts*

Part number description CGL62A36-11P-E1D-B-F0-SPL Ordering designation CGL120015-4 Socket contacts* Part number description CGL62A36-11S-E1D-B-F0-SPL

Ordering designation CGL120015-5

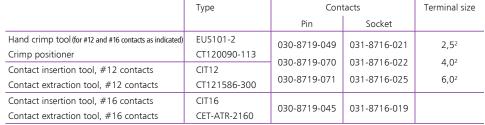
*Ordering table for contacts (*Ordering table for contacts (Contacts to be ordered separately)							
Number of contacts permitted	Contact size	Terminal size	Socket contact crimp	Pin contact crimp	Grounding screw			
3	4	6²	031-8716-014	030-8719-057				
3	4	10 ²	031-8716-015	030-8719-058				
3	4	16 ²	031-8716-016	030-8719-059				
3	4	25²	031-8716-017	030-8719-043				
1	4 Ground	6 ²	031-8716-020	030-8719-060	250-8501-023			
1	4 Ground	10 ²	031-8716-028	030-8719-061	250-8501-023			
1	4 Ground	16 ²	031-8716-029	030-8719-062	250-8501-023			
1	4 Ground	25 ²	031-8716-027	030-8719-044	250-8501-023			
7	16	1,5²	031-8716-019	030-8719-045				



TOOLING

TOOLS FOR CGL #28







	Туре	Contacts		Terminal size
		Pin	Socket	
Hand crimp tool for grounding contact,	CCT-CGF-E	030-8719-074	031-8716-031	2,5²
crimp positioner included in the tool above,		030-8719-075	031-8716-032	4,0²
no insertion or extraction tool needed		030-8719-076	031-8716-033	6,0²



	Туре	Contacts		Terminal size
		Pin	Socket	
Hand crimp tool (for #16 contacts as indicated)	EUS101-2			
Crimp positioner	CT120090-113	020 0710 045	001 0716 010	1 52
Contact insertion tool #16 contacts	CIT16	030-8719-045	031-8716-019	1,5²
Contact extraction tool #16 contacts	CET-ATR-2160			



	Туре	Con	Contacts		
		Pin	Socket		
Hydraulic crimp tool for power and	HPW400U-ITT	030-8719-057	031-8716-014	6²	
grounding contacts	121586-5257	030-8719-058	031-8716-015	10 ²	
Crimp die for hydraulic tool	121586-5230	030-8719-059	031-8716-016	16²	
Contact insertion tool	CIT4	030-8719-043	031-8716-017	25²	
Contact extraction tool #4 contacts	CT120090-56	030-8719-060	031-8716-020	6²	
		030-8719-061	031-8716-028	10 ²	
		030-8719-062	031-8716-029	16²	

030-8719-044 031-8716-027







25²

PRODUCT SAFETY INFORMATION

1. MATERIAL CONTENT AND PHYSICAL FORM

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups.

a) Printed circuit types and low cost audio types which employ all plastic insulators and casings.

b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with type of connector and also application and are usually manufactured from either: Copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

ACAUTION

2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

There is no fire hazard when the connector is correctly wired and used within the specified parameters.

Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product Data Sheet/Catalog are exceeded and can cause breakdown of insulation and hence electric shock. If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonization of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. DISPOSAL

Incineration of certain materials may release noxious or even toxic fumes.

5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30V ac or 42.5V DC are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet/Catalog. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

IMPORTANT GENERAL INFORMATION

(i) Air and creepage paths/Operating voltage. The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

(ii) Temperature

All information given are temperature limits. The operation temperature depends on the individual application.

(iii) Other important information

Cannon continuously endeavors to improve their products. Therefore, Cannon products may deviate from the description, technical data and shape as shown in this catalog and data sheets.

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Circular/Filter/Hermetic/Fiber Optic Connectors

As a world leader in circular, filter, and hermetic connectors, ITT can leverage its design and manufacturing expertise to fit virtually any application. Our expertise includes fast positive mating for a wide range of military applications, as well as numerous sizes and contact configurations for various harsh environments. Our wide variety of fiber optic products include hybrid contacts, multi-channel, rack and panel, and hi-rel assemblies, including MIL and ARINC standard solutions that meet numerous specifications, including NATO and MIL standards.



D-Subminiature Connectors

Cannon invented D-sub connectors in 1952. Our family of D-Subs now includes combinations of signal, power and RF, as well as severe service sealed connectors. Cannon D-Subs are available with an extensive line of backshells and accessories and are one of the most economical shielded connector solutions available. ITT D-Sub connectors are qualified to the MIL-DTL-24308 specification.

Microminiature Connectors

Developed first by Cannon in the 1960's, ITT's Interconnect Solutions microminiature connectors offer high performance and reliability with exceptional versatility. Available in rectangular, circular, and strip configurations for countless applications, many of our connectors meet or exceed applicable requirements of the MIL-DTL-83513 specification.



Rack and Panel Connectors

Initially pioneered by Cannon during the 1930s, ITT's Interconnect Solutions is the world leader in rack and panel connectors, offering unmatched variety of shell configurations and insert arrangements, materials, plating, and contact options. Many of our standard and custom designs meet the stringent requirements of ARINC 600, ARINC 404 (MIL-C-81659), and MIL-DTL-83733 standards.



Trident



Cannon's Trident Connector System is a versatile range of electrical connectors based on a standard contact design. These contacts are fully interchangeable throughout the Trident Connector System. The connector options include low cost rectangular, rack and panel, industrial grade circulars, harsh environment circulars and shielded circulars.

Transportation

The ITT's Interconnect Solutions includes sealed circular and rectangular connectors in metal or plastic shells. These configurations include board to cable or cable to cable/ bulkhead applications. Both signal and power contacts can be combined in various layouts. All product lines within the Transportation segment offer very low contact resistance providing maximum signal integrity.

ITT's Interconnect Solutions is an international manufacturer and supplier of connectors including circular, rectangular, fiber optic, RF, power and high voltage, audio, PMCIA, Compact Flash Card, enclosures, cable assemblies, and application specific custom solutions. The Interconnect Solutions portfolio includes the brands Cannon, VEAM, and BIW Connector Systems. As a worldwide leader in connector technology for nearly a century, ITT offers one of the broadest product offerings, six sigma manufacturing capability, Value Based Product Development with exception-al engineering capability, and an extensive sales, distribution, and customer support network.





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