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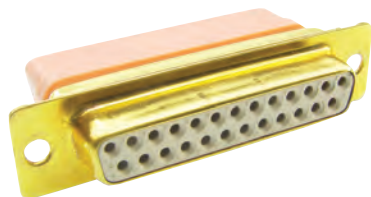
Interconnect Solutions
Cannon, VEAM, BIW

Ensuring over **20 years**
of mission critical communication
between two worlds across
250,000,000 miles



Engineered for life

Grommet D



- Environmental Protection
- MIL-C-4308 Compatibility
- Reliability and Versatility

GD* connectors are ideal for aerospace, military, telecommunications and other applications requiring protection and high reliability.

ITT Cannon developed GD* connectors to meet the needs of the avionics industry. These connectors provide high-density and moisture protection.

Environmental protection is accomplished by the resilient grommet, interfacial seal, and bonded connector components.

Performance and Material Specifications

MATERIALS AND FINISHES

	Materials	Finishes
Shell	Low carbon steel per ASTM-A-620	Yellow chromate over cadmium per QQ-P-415, Type II, Class 2
Contacts	Copper alloy	Standard finish: Gold over nickel Military finish: Gold 50 microinches thickness per MIL-G-45204, Type II, Grade C, Class 1, over copper per MIL-C-14550
Float Mount Hardware	Stainless Steel	Passivated per QQ-P-35
Grommets and Seals	Silicone elastomer or Fluorosilicone	
Bonding Material	Epoxy	

MECHANICAL FEATURES

Wire Accommodation – Contact: #20, #22, #24 AWG.

Wire O.D. .071 (1.80) maximum, .038 (0.97) minimum.

Contact Retention – 9 lbs. minimum (40N) after 10 insertions

ELECTRICAL DATA

Test voltage AC RMS 60 Hz

	Sea Level	20,000 Ft.	50,000 Ft.	70,000 Ft.
Average Flashover	1,000	1,000	500	500
Test	1,000	650	325	325

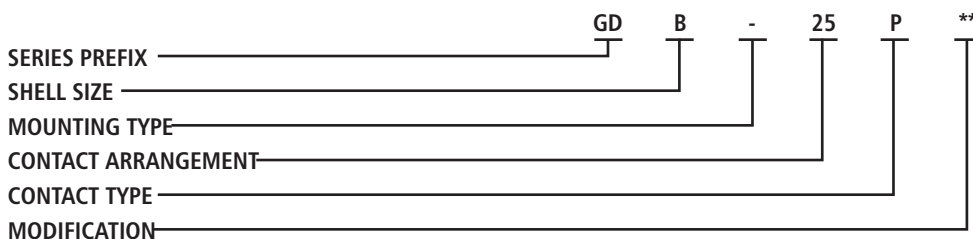
Maximum Current Carrying Capacity of Contacts – #20 Contacts: 5 Amps

Temperature Range – -65°C to +150°C (-53.9°F to +302°F)

How to Order

SERIES PREFIX
GD – Grommet D

SHELL SIZE
E, A, B, C, D



MOUNTING TYPE
No designator – .120 (3.05) Diameter Mounting Holes

Y – Float Mount for Rear and Front Panel Mounting

CONTACT ARRANGEMENTS
Std. Density 9, 15, 25, 37 and 50
Hi Density 15, 26, 44, 62, 78

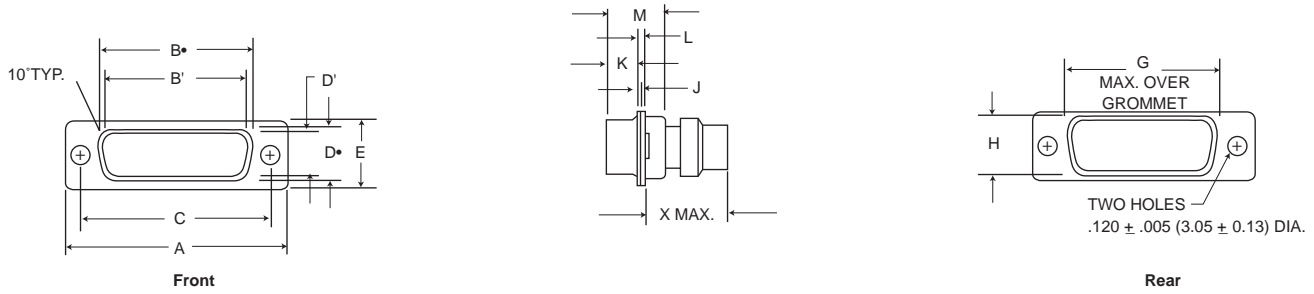
CONTACT TYPE
P – Pin, crimp termination
S – Socket, crimp termination

MODIFICATIONS (Typical Modifiers)
FO – Connectors supplied Less Contacts

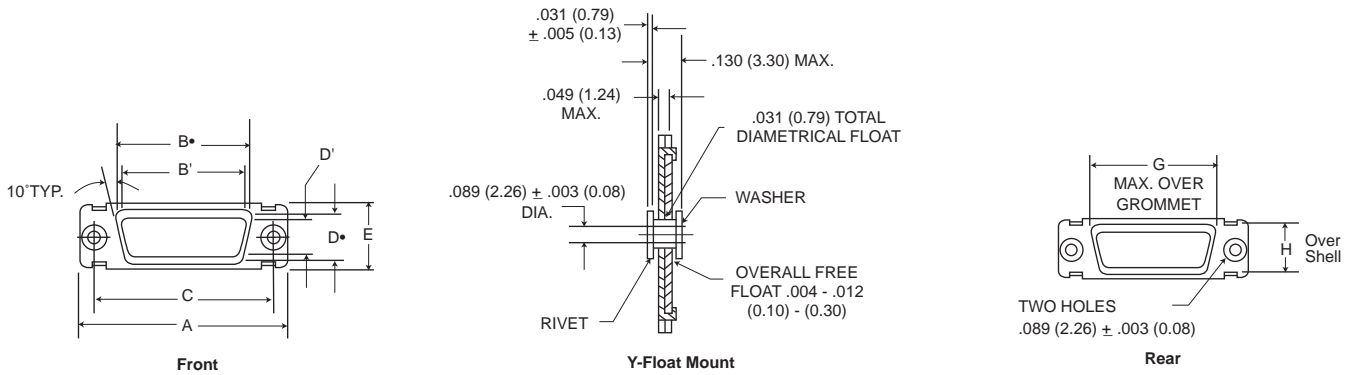
See D*MA modifiers, page C-8.

Grommet D GD*

Standard Shell Dimensions



Shell with Float Dimensions



It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mounted.

Shell Size	A ±.015 (0.38)	B* ±.005 (0.13)	B' ±.005 (0.13)	C ±.005 (0.12)	D* ±.005 (0.13)	D' ±.005 (0.12)	E ±.015 (0.38)	G Max.	H ±.010 (0.25)	J ±.010 (0.25)	K ±.006 (0.13)	L ±.010 (0.25)	M ±.085 (0.13)	X Max.
GDE-9P	1.213 (30.81)	—	.666 (16.91)	.984 (24.99)	—	.329 (8.36)	.494 (12.55)	.750 (19.05)	.422 (10.72)	.030 (0.76)	.235 (5.97)	.045 (1.14)	.422 (10.72)	.718 (18.24)
GDE-9S	1.213 (30.81)	.643 (16.33)	—	.984 (24.99)	.311 (7.90)	—	.494 (12.55)	.750 (19.05)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.045 (1.14)	.429 (10.90)	.718 (18.24)
GDA-15P	1.541 (39.14)	—	.994 (25.24)	1.312 (33.32)	—	.329 (8.36)	.494 (12.55)	1.093 (27.76)	.422 (10.72)	.030 (0.76)	.235 (5.97)	.045 (1.14)	.422 (10.72)	.718 (18.24)
GDA-15S	1.541 (39.14)	.971 (24.66)	—	1.312 (33.32)	.311 (7.90)	—	.494 (12.55)	1.093 (27.76)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.045 (1.14)	.429 (10.90)	.718 (18.24)
GDB-25P	2.088 (53.03)	—	1.534 (38.96)	1.852 (47.04)	—	.329 (8.36)	.494 (12.55)	1.625 (41.28)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.718 (18.24)
GDB-25S	2.088 (53.03)	1.511 (38.38)	—	1.852 (47.04)	.311 (7.90)	—	.494 (12.55)	1.625 (41.28)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.045 (1.14)	.429 (10.90)	.718 (18.24)
GD-37P	2.729 (19.32)	—	2.182 (55.42)	2.50 (63.50)	—	.329 (8.36)	.494 (12.55)	2.270 (57.66)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.718 (18.24)
GD-37S	2.729 (19.32)	2.159 (54.84)	—	2.50 (63.50)	.311 (7.90)	—	.494 (12.55)	2.270 (57.66)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.045 (1.14)	.429 (10.90)	.718 (18.24)
GDD-50P	2.635 (66.92)	—	2.079 (52.81)	2.406 (61.11)	—	.411 (11.20)	.605 (15.37)	2.162 (54.91)	.534 (13.56)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.718 (18.24)
GDD-50S	2.635 (66.92)	2.064 (52.42)	—	2.406 (61.11)	.423 (10.74)	—	.605 (15.37)	2.162 (54.91)	.534 (13.56)	.030 (0.76)	.243 (6.17)	.045 (1.14)	.429 (10.90)	.718 (18.24)

*dimensions B, D, and H are measured as outside dimensions at the bottom of draw.

NOTE: B* and D* are the outside dimensions for socket side, B' and D' are the inside dimensions for pin side.
High Density Layouts available.



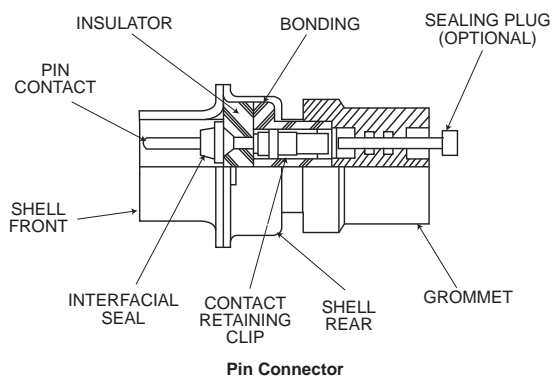
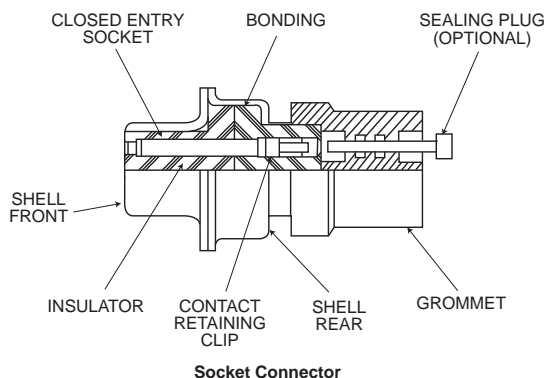
Test Data

GD* connectors meet all applicable requirements of MIL-C-24308. The following are excerpts from ITT Cannon Test Cannon Test Report C82-78 applicable to environmental D-Subminiature GD* series connectors. Refer to MIL-C- 24308 Test Extracts on page 385.

Test Description	Test Method	Results
Moisture Resistant	MIL-STD-1344 Method 1002.1 Type II	<ol style="list-style-type: none"> 1. No deterioration of performance. 2. Insulation resistance greater than 100 megaohms. 3. No evidence of flashover or breakdown during 1000 VAC DWV testing.
Fluid Immersion	20 hours immersion in hydraulic fluid per MIL-L-23699.	<ol style="list-style-type: none"> 1. No detrimental damage. 2. Able to meet requirements of mating and unmating test.
Immersion	Two hours immersion in tap water at a depth of 36.00 (914.40) in mated condition, per MIL-STD 810, Method 512, Procedure 1.	While still immersed, the mated connectors exceeded 100 megaohm insulator resistance and exhibited no evidence of breakdown or flashover during 1000 VAC (RMS) DWV testing.

Design Features

- Resilient silicone grommets for wire sealing
- Interfacial seals
- Closed-entry socket contacts
- Bonded components to prevent moisture
- Uses M39029 type contacts and termination tooling
- Intermateable with most M24308 type connectors
- Rear-release crimp contacts
- LITTLE CAESAR® contact retention assembly
- Optional sealing plugs, ITT Cannon part number



Note: Crimp Contacts: See page C-13

D Sub