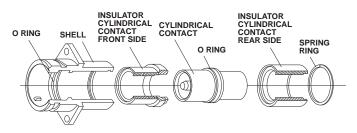
These connectors are used to transmit very high current at low voltage, as for example in the electrical equipment of miltary land and sea-borne vehicles and in industrial facilities. The connecotrs meet the mating dimensions, mechanical features and rear panel installation requirements of VG 95234. Ultraflexible, shielded weld cables are terminated to the connectors.

a two-piece rigid insulator. The aluminum shell has insulator which is fixed to the shell with a snap-in a chromate finish over cadmium. The operating ring. This allows unlimited exchange of the crimp temperature ranges from -55°C to +125°C contacts. The bayonet coupling assures fast (-67°F to +257°F). The contacts of copper or coupling and uncoupling. Color-coded snap-in points copper alloy with hard sliver finish are designed for indicate positive mating. Plugs and receptacles are crimping or termination to solid copper conductors waterproof in mated conditions up to 1 bar (35 feet with threaded bolts. The mechanical durability is a of water). minimum of 500 mating cycles. The crimp contacts accept wires per DIN 46438 (25-240 sq. mm).

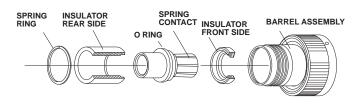
These high power connectors feature one contact in Contact retention is achieved by the two-piece

# **Conector Design - CGE**

#### Receptacle CGE2...B-04



Plug CGE6...B-03



### **How To Order - CGE**

# **SERIES**

CGE - ITT Cannon Prefix

#### SHELL STYLE

- 0 Wall mounting receptacle with mounting flange
- Cable connecting plug
- Box mounting receptacle with mounting flange
- 6 - Straight plug
- 8 - 90° angle plug

### CLASS

- Environmental, class JP 07, according to

#### SHELL SIZE

16 - 18 - 22 - 28 - 32

### CONTACT ARRANGEMENT

- Shell size 16, 1 contact H2 16H2 18H5 - Shell size 18, 1 contact H5 22H9 - Shell size 22, 1 contact H9 28H15 - Shell size 28, 1 contact H15 32H24 - Shell size 32, 1 contact H24

# Ε **SERIES** SHELL STYLE **CLASS** SHELL SIZE **CONTACT ARRANGEMENT CONTACT SIZE -**CONTACT TYPE -ALTERNATE KEYWAY POLARIZATION **BAYONET COUPLING**

## MODIFICATION **CONTACT SIZE**

#### H2 - 3 AWG

H5 - 0 AWG H9 - 000 AWG H15 - 250 MCM H24 - 400 MCM

### **CONTACT TYPE**

F - Spring contact Z - Cylindrical contact

# ALTERNATE KEYWAY POLARIZATION

Standard - 180° W - 120°

### **BAYONET COUPLING**

В - Bayonet coupling

### MODIFICATIONS

16

05 - Through holes in flange

03 - Adapter for heat shrink boots, metric size crimp contact

04 - Rear panel mounting, four threaded holes, metric size crimp contact

04-05 - Same as 04, however with four

thourgh holes 14 - shielded version, metric size crimp contact

> - Thread bolt termaination, front panel mounting, 0-ring for sealing between wall and receptacle (only for style CGE2EB)



# **Performance and Material Specifications -CGE**

Admissible ambient temperature	- 55°C to +125°C		
Class	JP 07 according to DIN 40050 Test pressure: 1 bar overpressure Test duration 12 hours		
Vibration	200 m/s² for 10 to 2000 Hz		
Mecanical durability	500 mating cycles		

COUPLING TORQUE

(IN WIRED CONDITION ACC. TO VG 95319 Part 2, Test No. 5.8.2.)

Shell Size	max. closing/opening torque		min. openii	ng torque
	Nm	ozm	Nm	ozm
16	5.5	19.78	0,5	1.80
18	8.0	28.78	0,6	2.16
22	11.0	39.57	0,8	2.88
28	17.0	61.15	0,9	3.24
32	19.0	68.34	1,0	3.60

3,597 = (Oz & Ozm)

#### CONTACT RETENTION

(ACC. TO VG 95319, PART 2. TEST NO. 5.4)

Contact Size	Metric Wire Size	American Wire Size	Test	Force
	(mm²)	(AWG) or (MCM)	(N min.)	(Oz. min.)
H2	25	3 AWG	100	359.70
H5	50	0 AWG	120	431.64
H9	95	000 AWG	140	503.58
H15	150	250 AWG	160	575.52
H24	240	400 AWG	200	719.4

## **ELECTRICAL DATA**

CONTACT RATING (amps) at 125°C ambient temperature:						
Shell size	16	18	22	28	32	
Contact size	H2	H5	H9	H15	H24	
Max. current rating (amps at 125°C ambient temperature	250	300	500	650	1000	
Max. short-time load approx.	750	1000	2000	3000	5000	

#### AIR AND CREEPAGE PATHS

Air path	.118 (3.00) min.
Creepage path	.197 (5.00) min.
CONTACT RESISTANCE	

Conact Size	H2	H5	H9	H15	H24
Contact resistance (m0hm max.)	0.6	0.3	0.15	0.1	0.07

### INSULATOR RESISTANCE

min. 5000 M0hm

### **MATERIALS AND FINISHES**

MATERIALO AND I INIOTILO			
Shell	Aluminum alloy		
Finish	Olive chromate over cadmium		
Insulator	PTFE		
Contact	Copper and copper alloy		
Finish	Hard silver		
O-Rings	Viton		

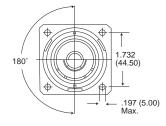
# **Alternate Keyway Positions - CGE**

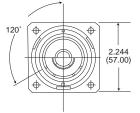
To avoid mismating of identical connectors, the keyway of the CGE connectors is available in two different positions:

Standard Keyway position = 180°

Keyway position W = 120°

Keyway position of receptacles and cable connecting plugs.





Keyway position of straight and 90° angle plugs.

