GzD series explosion-proof connectors

Brief Introduction

- Applied in cable to equipments in severe environment like moist, or immerse.
- Protection degree: IP68
- Termination methods: soldering, crimping
- Plug and receptacle can both mount with pin or socket
- Plug and receptacle use thread coupling, differed with different color mark.
- Explosion-proof mark: (Exd Ⅱ T6)，comply with GB3836.1-2000，GB3836.2-2000

Main Characteristics

[Mechanical performance]

——Shell：aluminum alloy, anodized

——Insulator：thermo-set material

——Grommet and sealing：silicon rubber

——Contact：copper alloy, gold plating or silver plating

——Vibration：frequency 10Hz－2000Hz, acceleration 147 m/s^2

——Shock：acceleration 490 m/s^2

——Endurance：500 cycles

[Electrical Performance]

——Rating Voltage：

Operating environment	Rating voltage (DC or 50Hz AC)
Normal	600 V(Layout 2037 Rating Voltage 600V)
Damp heat	600 V(Layout 2037 Rating Voltage 600V)

——Withstanding voltage：

Operating environment	Withstanding voltage (DC or 50Hz AC)
Normal	2700 V(Layout 2037 withstanding voltage 2000V)
Damp heat	1000V(Layout 2037 withstanding voltage 500V)

——Insulator resistance：≥5000MΩ

[Environmental performance]

——Operation Temp：－20℃~+60℃

——Relative humidity: 90%~95% at 40℃±2℃

——Salt spray：aluminum alloy 200 hours

——Protect degree：IP68

——Application：area contains Ⅱ series，T1～T6 explosion air

——Directions：please check explosion-proof mark before mounting

WEB SITE: WWW.OCEANCHIPS.RU CONTACT NUMBER: 8(812) 309-75-97
E-MAIL: OCEAN@OCEANCHIPS.RU

Ordering information

Basic series	**GzD**	**16**	**T**	**04**	**Z**	**E22**

Shell size
12、16、20、24

Type T-plug F-square flange receptacle

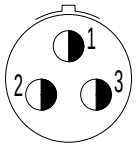
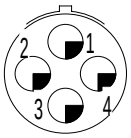
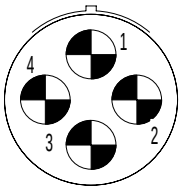
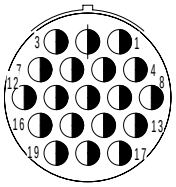
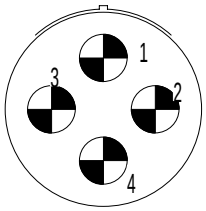
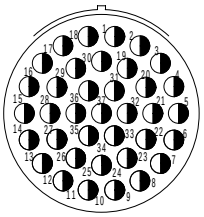
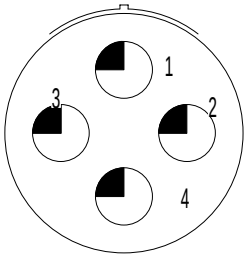
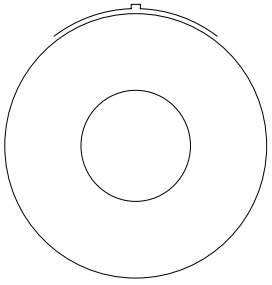
Contact No.: see layout

Contact type
Z-pin, silver plating K-socket, silver plating
Z1-pin, gold plating K1-socket, gold plating

Shell plating:
E22–aluminium alloy, anodized

Layout

Insulator interface diagram for pin:

1203		1204		1604		1619	
 3-12#		 4-10#		 4-4#		 19-12#	
Creep age distance	9.77	Creep age distance	5.65	Creep age distance	12.14	Creep age distance	4.95
Electric clearance	6.55	Electric clearance	3.425	Electric clearance	6.38	Electric clearance	3.95
2004		**2037**		**2404**		**2401**	
 4-0#		 37-12#		 4-Φ12		 1-Φ23	
Creep age distance	8.782	Creep age distance	5.06	Creep age distance	6.832	Creep age distance	11.6
Electric clearance	5.082	Electric clearance	4.06	Electric clearance	6.832	Electric clearance	10.7

Contact size：

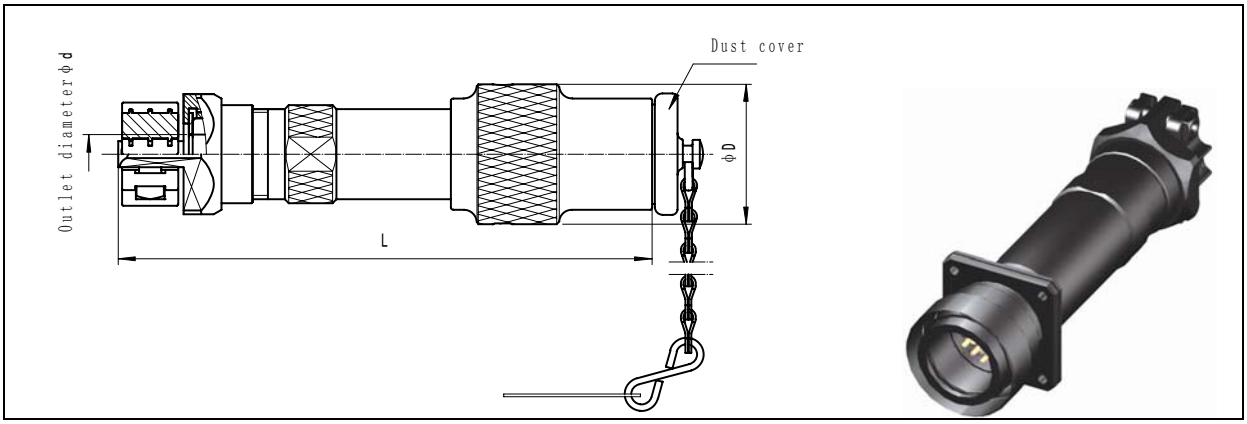
Contact size	Rating current (A)	Contact resistance (mΩ)	Crimping sleeve inner Dia. (mm)	Crimping sleeve section (mm^2)	Crimping tool	Withdraw tool
Φ23	1135	≤0.1	Φ29.1	665	——	——
Φ12	225	≤0.15	Φ14.2	160	YTQ	QX-C103-Φ12
0#	150	≤0.4	Φ11.3	100	YTQ	SM72-QXA
4#	80	≤0.5	Φ7.34	42	YTQ	QX-C103-4#
8#	46	≤0.75	Φ4.6	16.5	YDXY-00	QX-C103-8#
10#	33	≤0.85	Φ3.6	10.1	YDXY-00	QX-C103-10#
12#	23	≤1	Φ3.2	8	XCXY-01	QX-C103-12#

rating current droop rate：

Contact No.	1-10	11-20	21-30	31-61
Rated current droop rate (%)	0	10	20	30

Dimensions

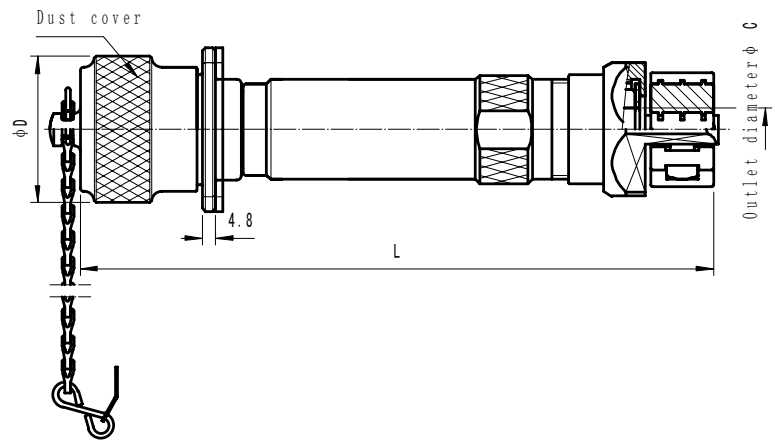
[Plug]



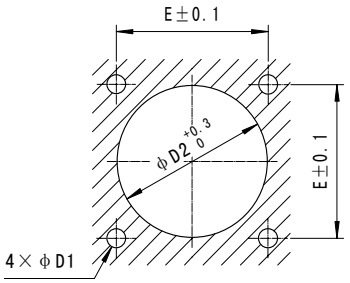
Shell size	D	L	d
12	54.3	78	15
16	67	78	1.625
20	81	78	2.125
24	93.7	90.6	2.5

WEB SITE: WWW.OCEANCHIPS.RU CONTACT NUMBER: 8(812) 309-75-97
E-MAIL: OCEAN@OCEANCHIPS.RU

[Square flange receptacle]

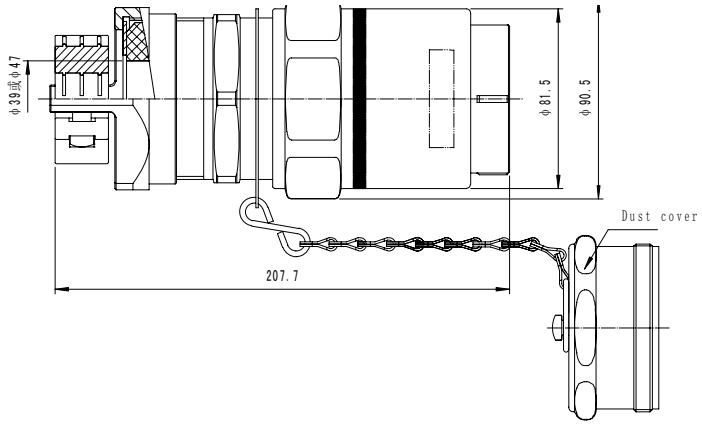


Recommended panel hole size

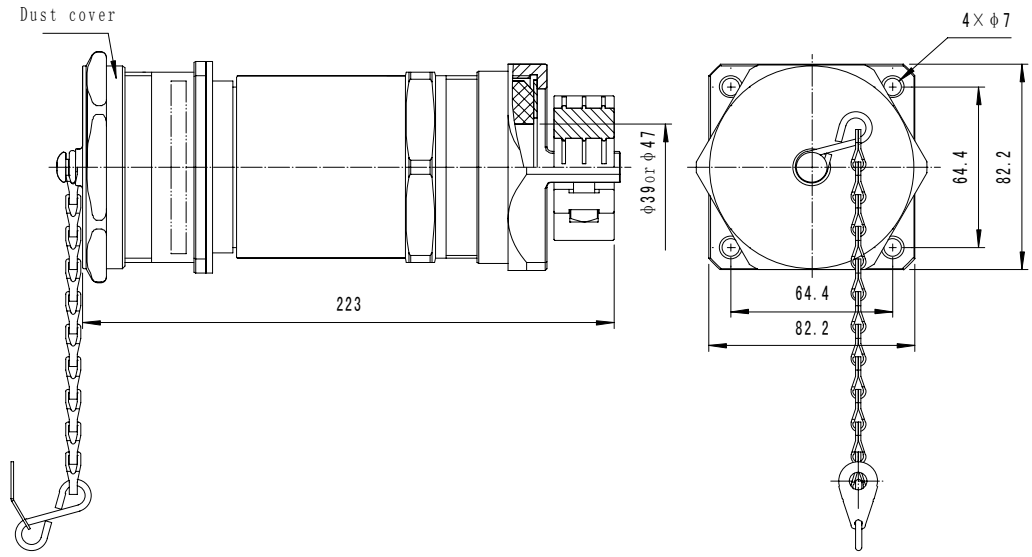


Shell size	d	LA	LB	L	D	D1	D2	C	E
12	5.5	42	57.2	224	51.3	5.5	36	15	42
16	5.5	52	66.7	230	64	5.5	48.5	25.4	52
20	5.5	62	76.2	242	74	5.5	60.5	41.2	62
24	7	72	88.9	255	88.5	7	73.5	34.5	72

[2401 Plug]



[2401 Receptacle]



Type	A	
2401 receptacle	39	47