

XCD series circular electrical connector



Conform to Chinese military connector standard GJB2889, XCD series is extended from XC series, designed as bayonet or thread coupling, solder or crimp contact, springtac socket. The family connector mainly use for big power.

Part number

	XCD	45	F	4	Z ₁	P ₁	W	01
Basic series								
Shell size								
22, 27, 33, 36, 39, 45, 85								
Type of plug and receptacle								
T = Plug								
F = Square flange receptacle								
L = Jam nut receptacle								
Number of contact								
01, 02, 03, 04, 06, 08, 09								
Type of contact								
Z ₁ = Pin with gold plating								
K ₁ = Socket with gold plating								
Finish								
D ₁ = Electroless nickel plating without thread								
P ₁ = Electroless nickel plating with thread								
Orientation								
N, W, X, Y, Z								
Omit = N								
Connection with conductor								
01 = Thread connect with cable								
02 = Crimp with cable								
Omit = Solder with cable								

Performance specification

Operating temperature: -55 °C ~ +200 °C

Relative humidity: at 40 ± 2 °C, 90% ~ 95%

Working height: ≤ 3000 m

Vibration: at 10 ~ 2000 Hz, acceleration: 196 m/s²

Endurance: ≥ 1000 cycles

Electrical performance

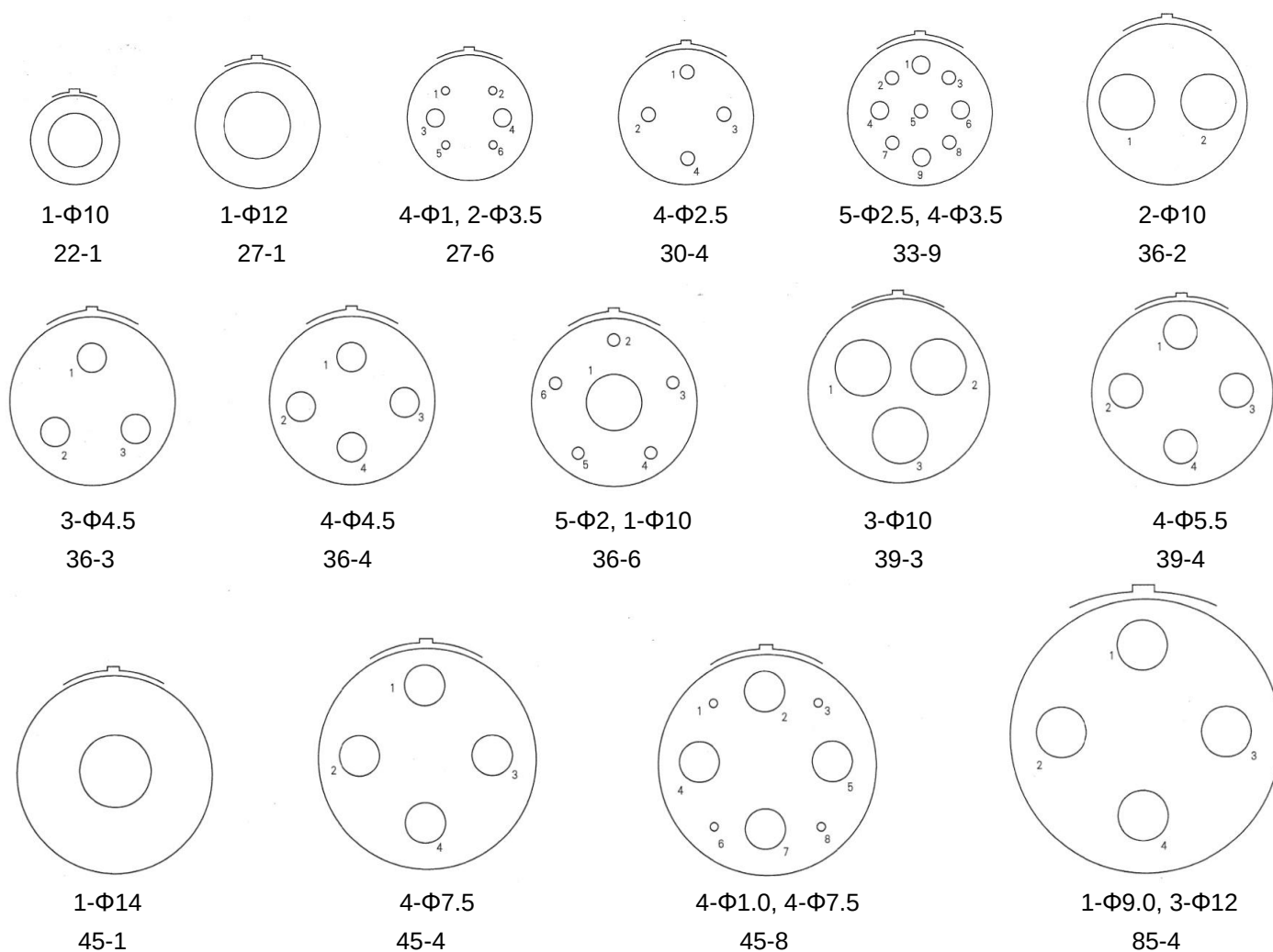
Contact resistance, rated current and Dimensions

Size (mm)	Φ1.5	Φ2.0	Φ2.5	Φ3.5	Φ4.5	Φ5.5	Φ7.5	Φ9.0	Φ10.0	Φ12.0	Φ14.0
Resistance (MΩ)	≤2.50	≤1.25	≤1.00	≤0.50	≤0.35	≤0.30	≤0.20	≤0.17	≤0.20	≤0.15	≤0.12
Rated current (A)	10	20	25	50	60	100	150	200	200	250	300

Rated voltage, Withstanding voltage and Insulation resistance

Operating environment	Rated voltage (v)	Withstanding voltage (v)	Insulation resistance (MΩ)
Normal	500	1500	≥ 5000
Hot and humid	500	750	≥ 1000

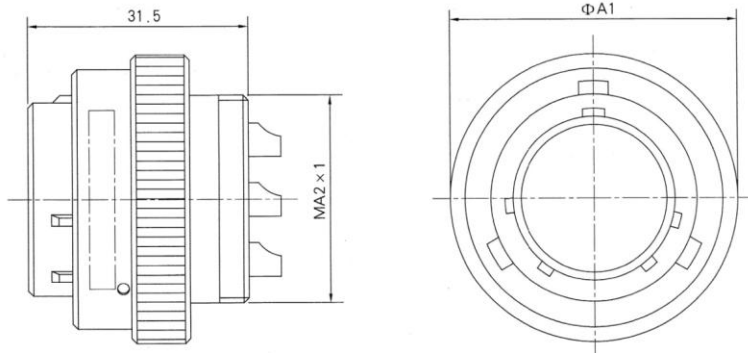
Contact layout



Shell size

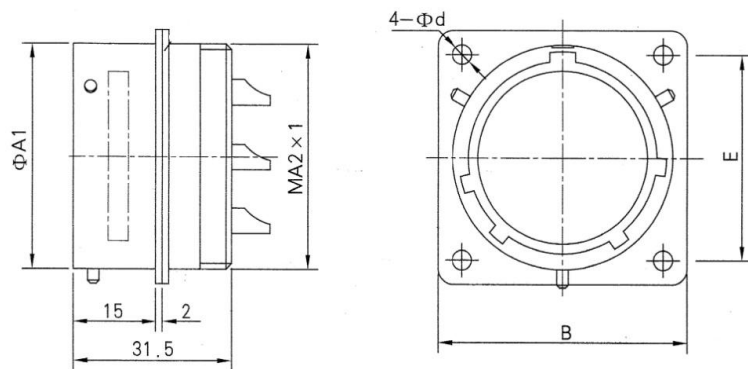
Solder with cable

Plug



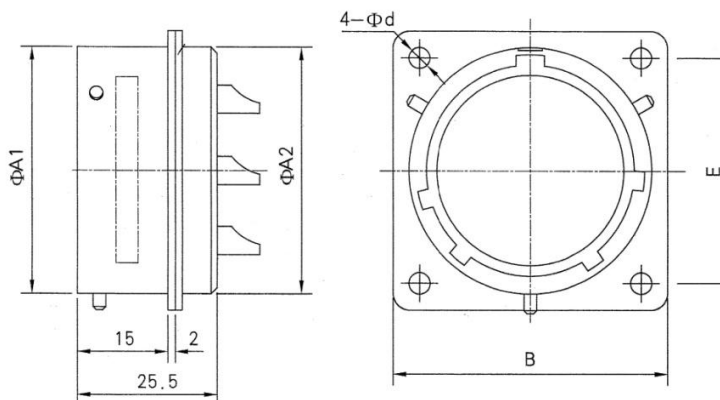
Shell size	A1	A2
22	32	22
27	37	27
33	43	33
36	46	36
39	49	39
45	55	45

Square flange receptacle with thread



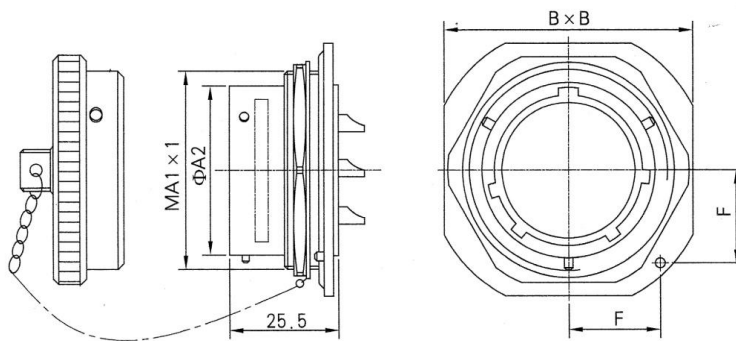
Shell size	A1	A2	d	B	E
27	28.7	27	3.2	34.5	28.0
33	34.7	33	3.2	39.5	32.5
36	37.7	36	3.2	41.0	34.0
39	40.7	39	3.2	43.0	36.0
45	46.7	45	3.7	49.0	42.0

Square flange receptacle without thread



Shell size	A1	A2	d	B	E
22	23.7	22	3.2	30.0	24.0
27	28.7	27	3.2	34.5	28.0
33	34.7	33	3.2	39.5	32.5
36	37.7	36	3.2	41.0	34.0
39	40.7	39	3.2	43.0	36.0

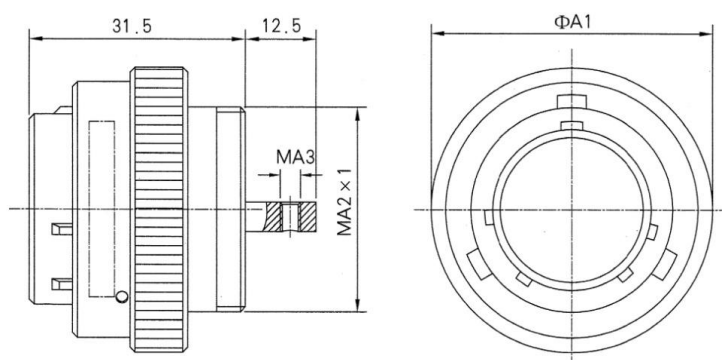
Jam nut receptacle



Shell size	A1	A2	B	E
36	42	37.7	54	19.0
39	45	40.7	56	20.0
45	51	46.7	62	22.5

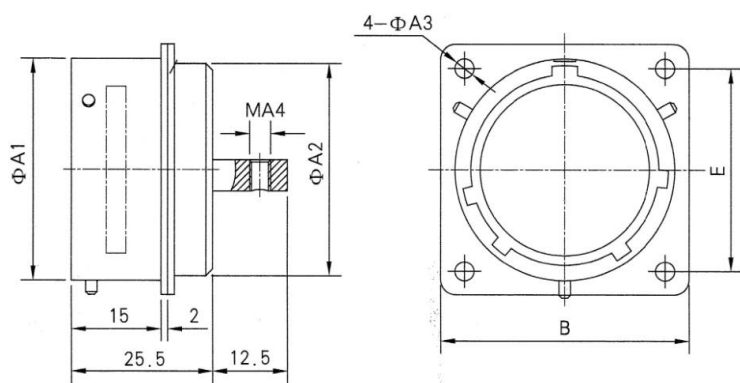
Thread connect with cable (01)

Plug



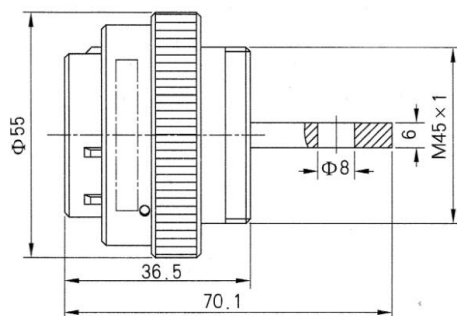
Shell size	A1	A2	A3
22	32	22	5
27	37	27	6
36	46	36	5

Square flange receptacle

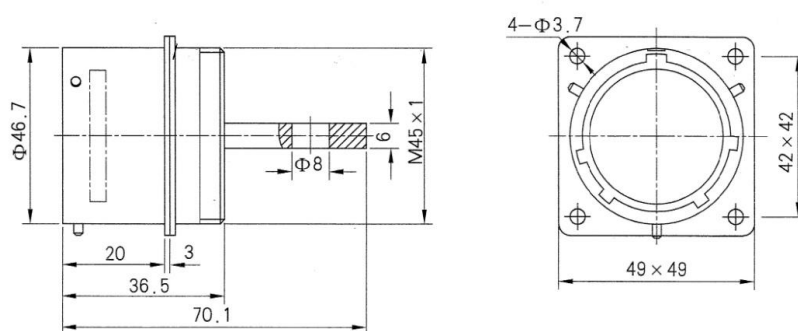


Shell Size	A1	A2	A3	A4	B	E
22	23.7	22	3.2	5	30.0	24.0
27	28.7	27	3.2	6	34.5	28.0
36	37.7	36	3.2	5	41.0	34.0

Plug - XCD45T1Z₁ (K₁) P₁

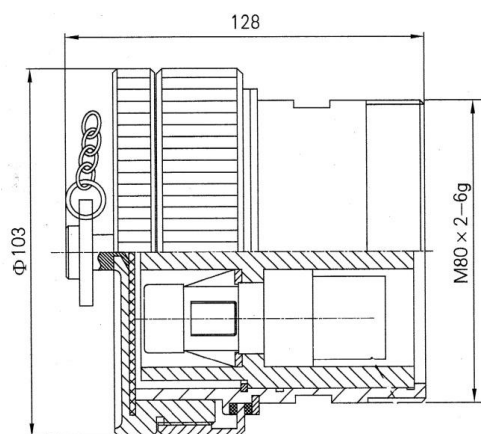


Receptacle - XCD45F1K₁ (Z₁) P₁

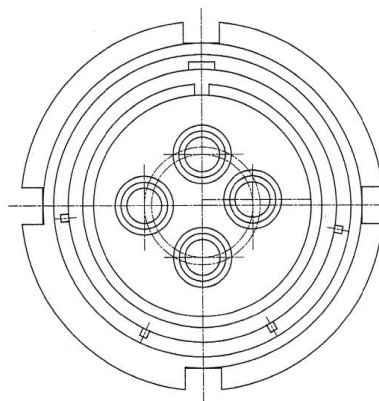


Crimp with conductor (02)

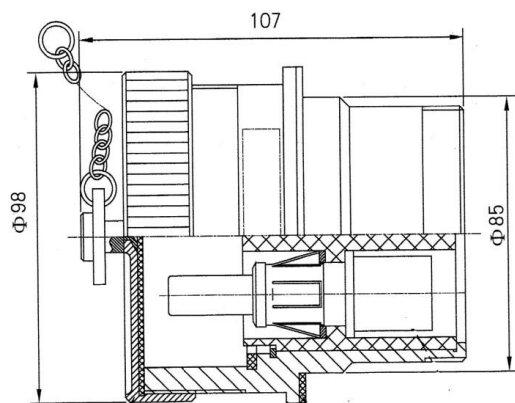
Plug - XCD85T4Z₁(K₁)P₁



Without dust cap



Receptacle - XCD85F4K₁(Z₁)P₁



Without dust cap

