

XCE series circular electrical connector



Conform to Chinese military connector standard GJB2889, XCE series is extended from XC series, designed as bayonet coupling, solder or crimp contact and springtac socket. The difference from XC series is smaller weight, volume and higher contact density.

Part number

	XCE	14	F	4	Z ₁	P ₁	W
Basic series							
Shell size							
12, 14, 18, 22, 24, 27, 30, 33, 36, 39							
Type of plug and receptacle							
T = Plug							
F = Square flange receptacle							
S or S ₀ = Jam nut hermetic receptacle thru bulkhead							
S ₁ or S ₂ = Square flange hermetic receptacle thru bulkhead							
Number of contact							
01 ~ 85							
Type of contact							
Z ₁ = Pin with gold plating							
K ₁ = Socket with gold plating							
M ₁ = Contact with gold plating (only for hermetic receptacle)							
Finish							
Omit = Black anodized without thread							
D ₁ = Electroless nickel plating without thread							
D ₃ = Olive-drab zinc plating passivated without thread							
E = Black anodized with thread							
P ₁ = Electroless nickel plating with thread							
P ₃ = Olive-drab zinc plating passivated with thread							
Orientation							
N, W, X, Y, Z.							
Omit = N							

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

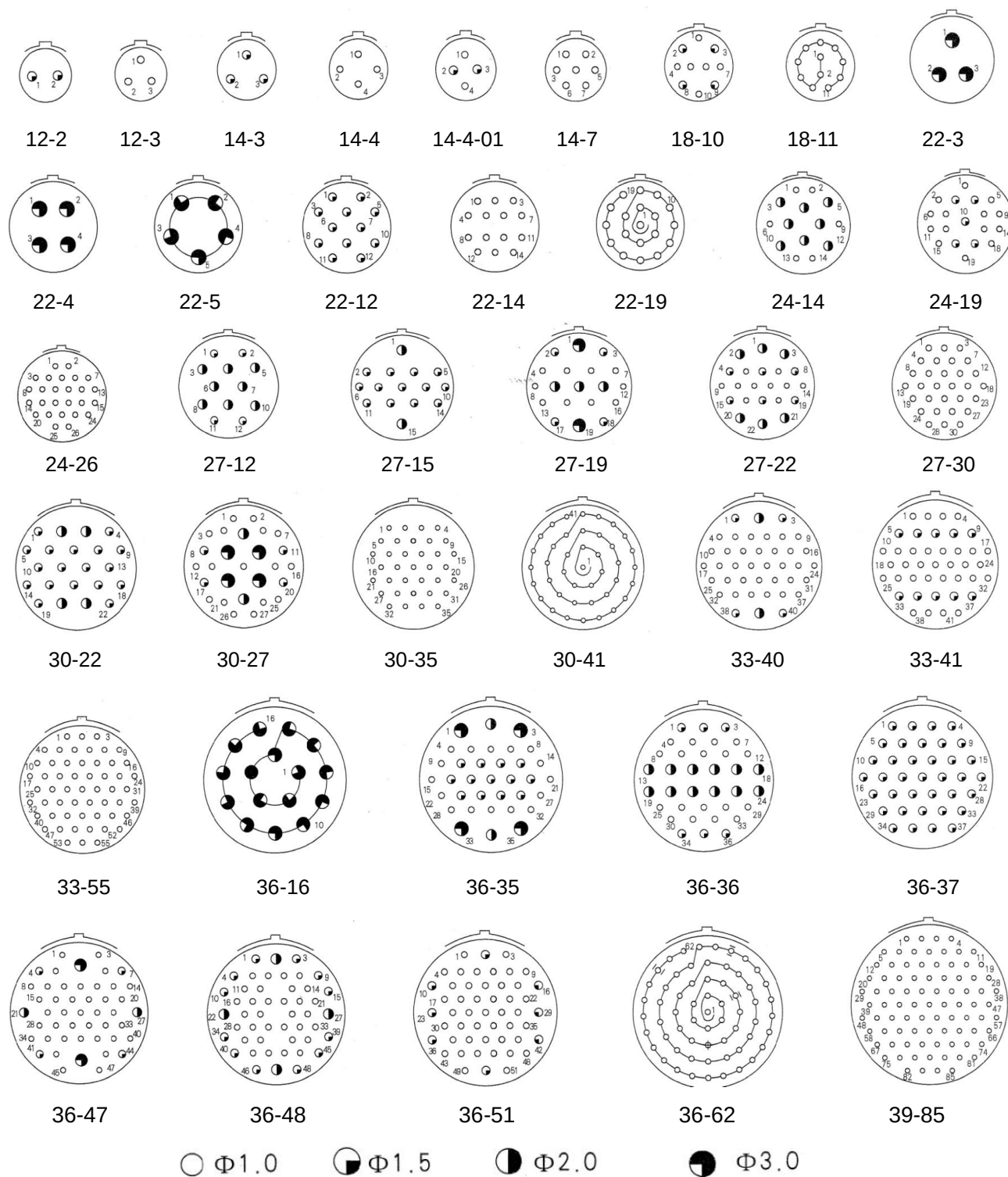
Contact resistance and diameter

Contact No.	Resistance (mΩ)	Rated current (A)	Diameter (mm)
Φ 1.0	≤ 5.0	5	1.3
Φ 1.5	≤ 2.5	10	1.8
Φ 2.0	≤ 1.25	20	2.5
Φ 3.0	≤ 0.75	40	3.4

Rated voltage, withstanding voltage and insulation resistance

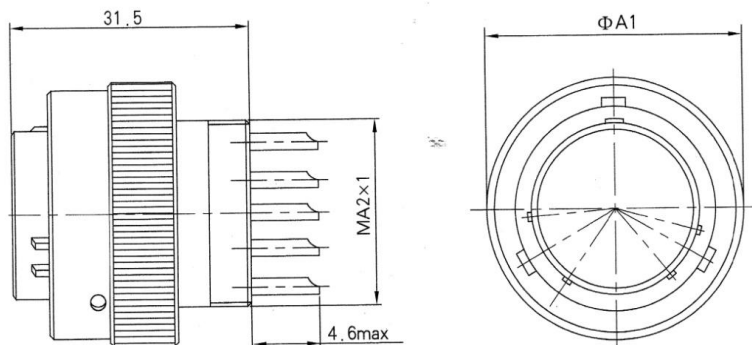
Operating environment	Rated voltage (v)	Withstanding voltage (v)	Insulation resistance (mΩ)
Normal	500	≥ 1500	≥ 5000
Hot and humid	500	≥ 1125	≥ 100
Low pressure (1 kPa)	250	≥ 300	—

Contact layout



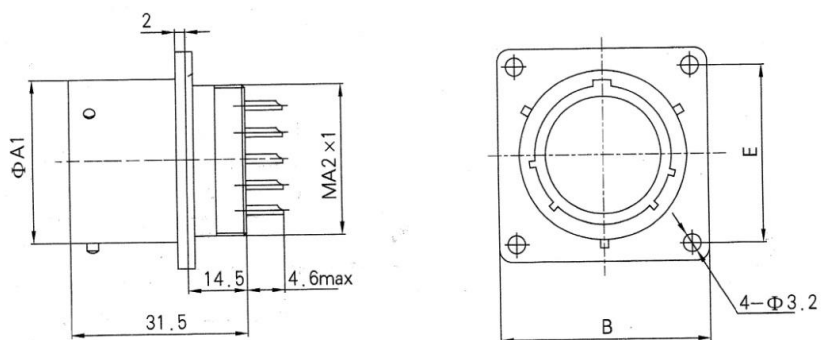
Shell size

Plug



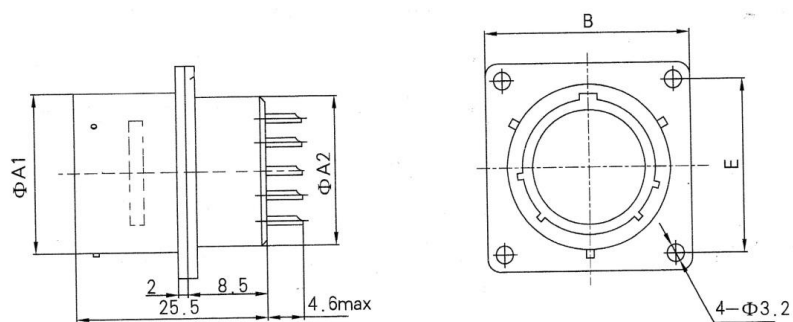
Shell size	A1	A2
12	19	12
14	21	14
18	28	18
22	32	22
24	34	24
27	37	27
30	40	30
33	43	33
36	46	36
39	49	39

Square flange receptacle with thread



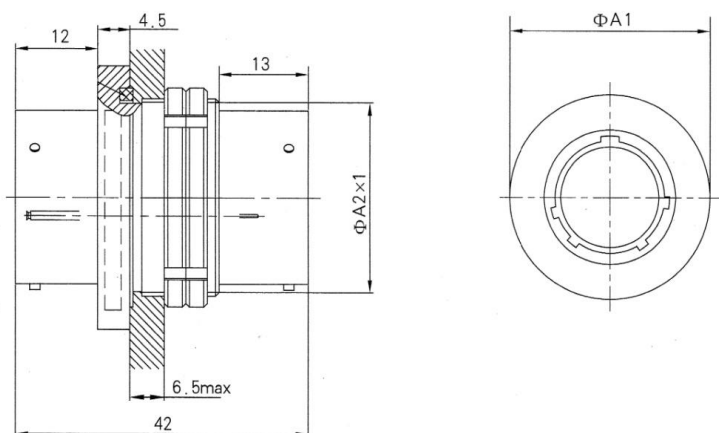
Shell size	A1	A2	B	E
12	13.7	12	23.0	17.0
14	15.7	14	25.0	19.0
18	19.7	18	27.5	21.5
22	23.7	22	30.0	24.0
24	25.7	24	32.0	26.0
27	28.7	27	34.5	28.0
30	31.7	30	36.5	30.0
33	34.7	33	39.5	32.5
36	37.7	36	41.0	34.0
39	40.7	39	43.0	36.0

Square flange receptacle without thread



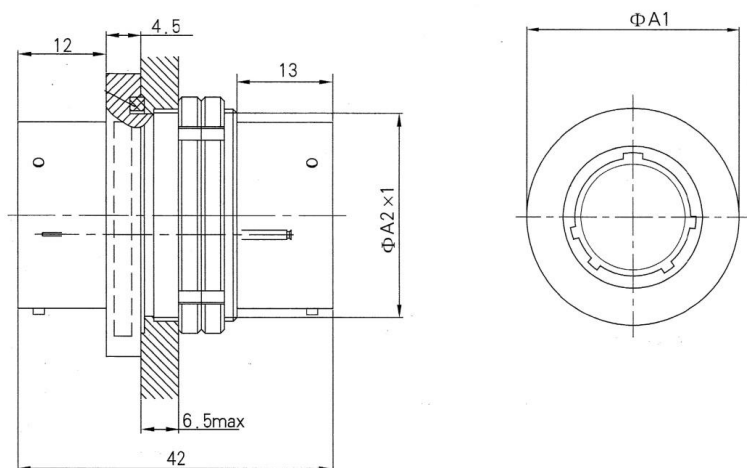
Shell size	A1	A2	B	E
12	13.7	12	23.0	17.0
14	15.7	14	25.0	19.0
18	19.7	18	27.5	21.5
22	23.7	22	30.0	24.0
24	25.7	24	32.0	26.0
27	28.7	27	34.5	28.0
30	31.7	30	36.5	30.0
33	34.7	33	39.5	32.5
36	37.7	36	41.0	34.0
39	40.7	39	43.0	36.0

Jam nut hermetic receptacle thru bulkhead (S)



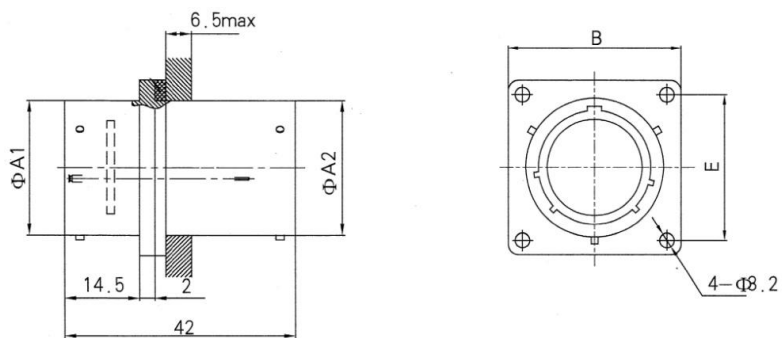
Shell size	A1	A2
12	27	16
14	27	18
18	31	22
22	36	27
24	36	27
27	39	30
30	42	33
33	45	36
36	48	39

Jam nut hermetic receptacle thru bulkhead (S₀)



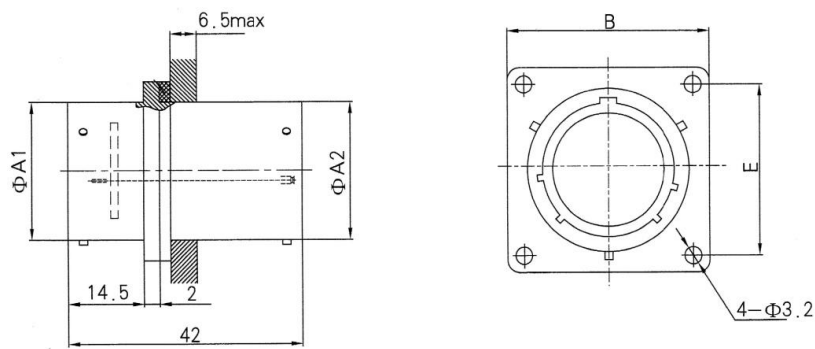
Shell size	A1	A2
12	27	16
14	27	18
18	31	22
22	36	27
24	36	27
27	39	30
30	42	33
33	45	36
36	48	39

Square flange hermetic receptacle thru bulkhead (S₁)



Shell size	A1	A2	B	E
12	13.7	13.7	23.0	17.0
14	15.7	15.7	25.0	19.0
18	19.7	19.7	27.5	21.5
22	23.7	23.7	30.0	24.0
24	25.7	25.7	32.0	26.0
27	28.7	28.7	34.5	28.0
30	31.7	31.7	36.5	30.0
33	34.7	34.7	39.5	32.5
36	37.7	37.7	44.0	34.0

Square flange hermetic receptacle thru bulkhead (S₂)



Shell size	A1	A2	B	E
12	13.7	13.7	23.0	17.0
14	15.7	15.7	25.0	19.0
18	19.7	19.7	27.5	21.5
22	23.7	23.7	30.0	24.0
24	25.7	25.7	32.0	26.0
27	28.7	28.7	34.5	28.0
30	31.7	31.7	36.5	30.0
33	34.7	34.7	39.5	32.5
36	37.7	37.7	44.0	34.0