

Y11 series circular electrical connector



Conform to Chinese military connector standard GJB101A-1997. Y11 series is designed as quick interior bayonet coupling and quick release, small size and light weight, solder contacts

Part number

	Y11	X	III	20	41	Z	J	10	2
Basic series									
Type									
X = Sealed by sealant									
P = Shielding sealed by sealant									
P ₁ = Shielded Sealed by sealant with electroless nickel plating									
S = Copper shell sealed by sealant and electroless nickel plating									
B = Stainless steel shell Sealed by sealant									
H = vitreous seal (only for receptacle)									
Orientation									
I, II, III, IV, V									
Omit = I									
Shell size									
08, 10, 12, 14, 16, 18, 20, 22, 24									
Number of contact									
2 ~ 61									
Type of connector									
T = Plug									
Z = Receptacle									
Type of contact									
J = Pin									
K = Socket									
S = Contact of thru wall									
Type of receptacle									
10 = Square flange receptacle									
11 = Circular flange receptacle									
14 = Jam nut receptacle									
Back shell									
2 = Cable clamp									
4 = 90° elbow									
5 = Heat shrinkable sleeve I									
5a = Heat shrinkable sleeve II									
6 = Shielding									

Performance specification

Operating temperature range: -55 °C ~ +125 °C

Shock: Max acceleration 980 m/s²

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

Endurance: ≥ 500 cycles

Contact resistance and current rating:

Diameter (mm)	Φ 1.0	Φ 1.5
Current (A)	5	10
Resistance (mΩ)	≤ 5	≤ 3

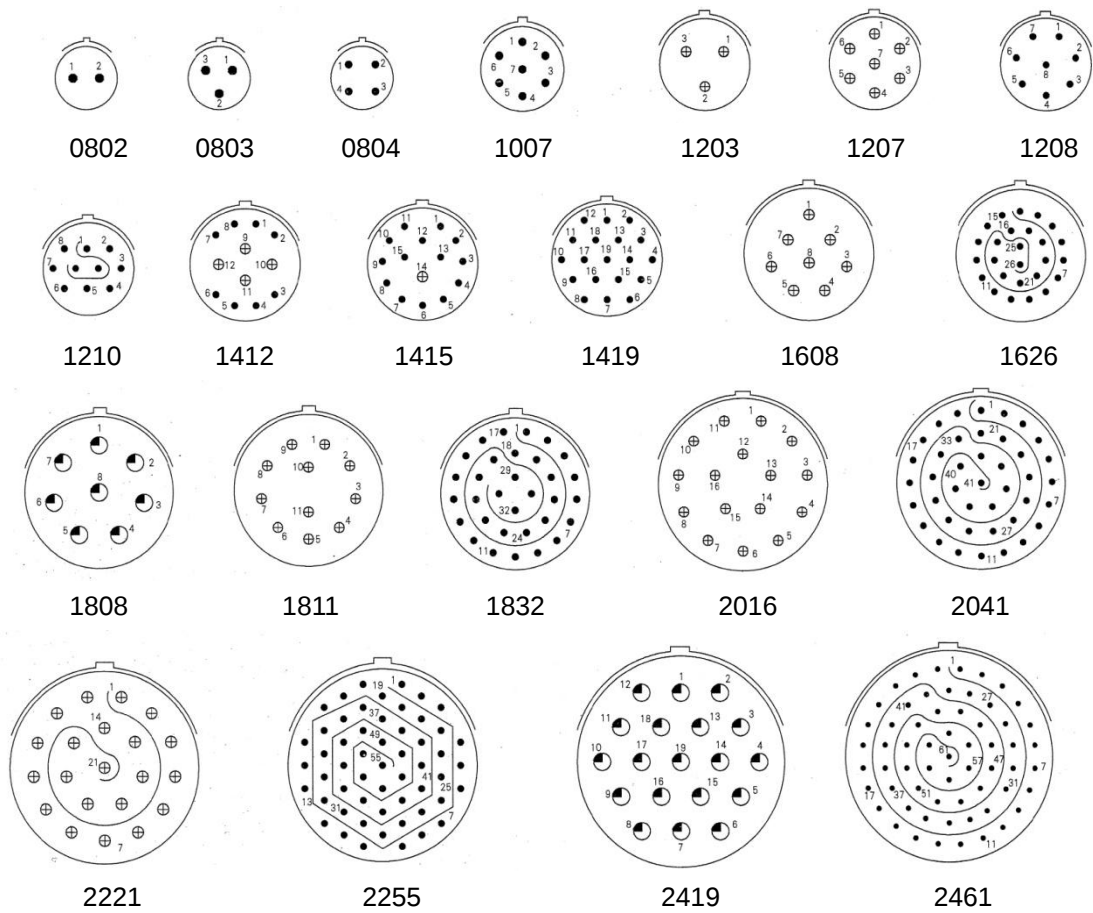
Insulation resistance:

Sea level	High humidity	High temperature	Under rain
≥ 3000MΩ	≥ 20MΩ	≥ 500MΩ	≥ 20MΩ

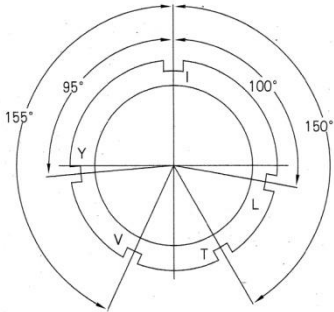
Withstanding voltage:

Sea level	21000 m	Humidity and heat
1500 V	200 V	500 V

Contact layout



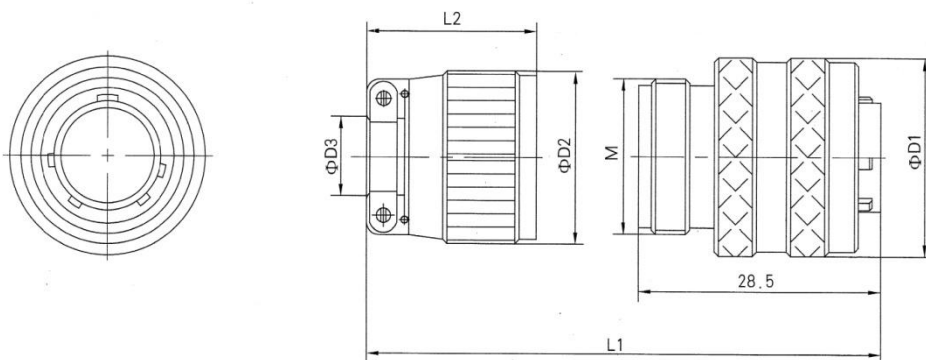
Orientation



No.	I	II	III	IV	V
Letter of sign	I	L	T	V	Y
Degree	0°	100°	150°	155°	95°

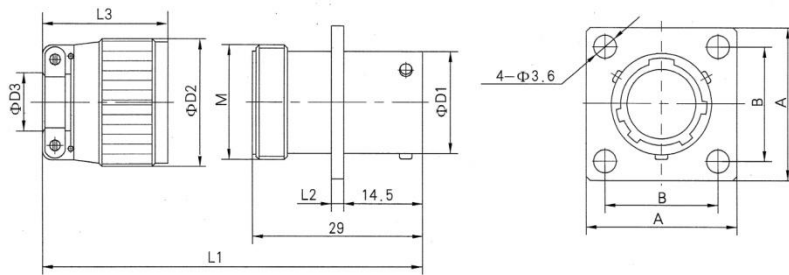
Shell size

Plug



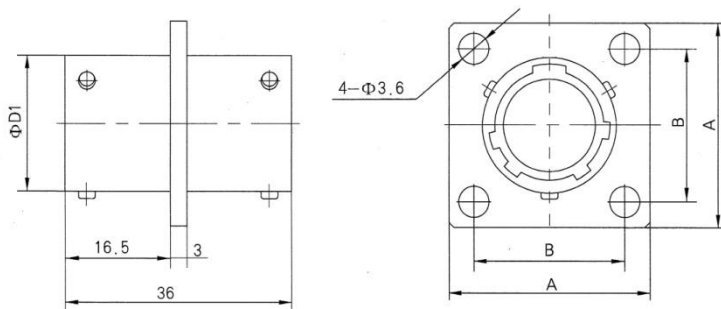
Shell No.	D1	Thread M	D2	D3	L1± 2	L2
08	20	M14×1.0	17.0	6	41.0	20
10	23	M18×1.0	20.0	8	41.0	20
12	26	M20×1.0	22.5	10	43.0	22
14	30	M24×1.0	26.5	12	49.0	28
16	33	M27×1.0	29.5	14	49.0	28
18	36	M30×1.0	32.5	17	49.0	28
20	39	M33×1.5	35.5	20	50.5	30
22	42	M36×1.5	38.5	24	50.5	30
24	45	M39×1.5	41.5	27	55.0	35

Square flange receptacle



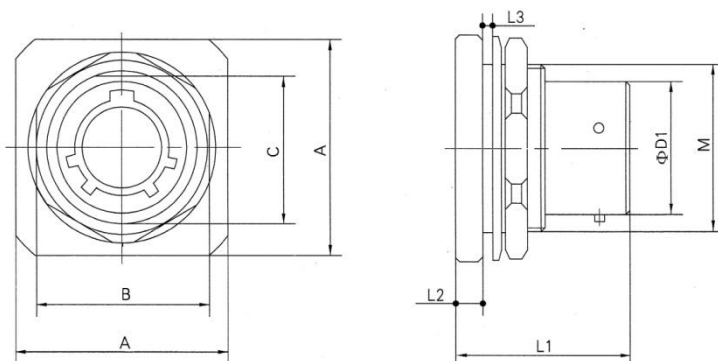
Shell No.	A	B ± 0.15	D1	D2	D3	Thread M	L1±2	L2	L3
08	21	15	13	17.0	6	M14×1.0	41.5	1.5	20
10	24	18	16	20.0	8	M18×1.0	41.5	1.5	20
12	27	21	20	22.5	10	M20×1.0	43.5	1.5	22
14	30	23	23	26.5	12	M24×1.0	49.5	1.5	28
16	33	25	26	29.5	14	M27×1.0	49.5	1.5	28
18	36	27	29	32.5	17	M30×1.0	49.5	1.5	28
20	39	29	32	35.5	20	M33×1.5	51.0	2.2	30
22	42	32	35	38.5	24	M36×1.5	51.0	2.2	30
24	45	35	38	41.5	27	M39×1.5	55.0	2.2	35

Square flange receptacle thru wall



Shell No.	A	B ± 0.15	D1
08	21	15	13
10	24	18	16
12	27	21	20
14	30	23	23
16	33	25	26
18	36	27	29
20	39	29	32
22	42	32	35
24	45	35	38

Jam nut receptacle

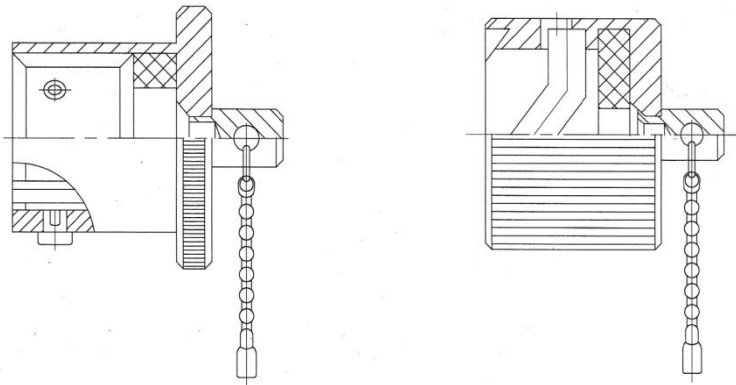


Shell No.	L1	L2	L3	D1	D2	Thread M	A	B	C
08	21.0	2.5	1.6 ~ 3.2	13	27	M16×1.0	24	22	15
10	21.0	2.5	1.6 ~ 3.2	16	30	M20×1.0	27	24	19

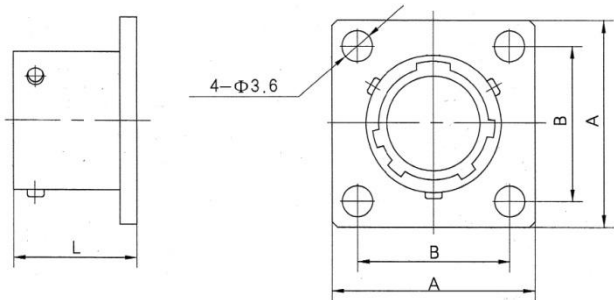
12	21.0	2.5	1.6 ~ 3.2	20	35	M24×1.0	32	27	23
14	21.0	2.5	1.6 ~ 3.2	23	38	M27×1.0	36	30	25
16	21.0	2.5	1.6 ~ 3.2	26	42	M30×1.0	38	32	29
18	21.0	2.5	1.6 ~ 3.2	29	45	M33×1.5	41	36	32
20	25.5	3.0	1.6 ~ 6.4	32	49	M36×1.5	46	41	35
22	25.5	3.0	1.6 ~ 6.4	35	53	M39×1.5	50	43	38
24	25.5	3.0	1.6 ~ 6.4	38	56	M42×1.5	53	46	41

Back shell and accessories

Dust cap



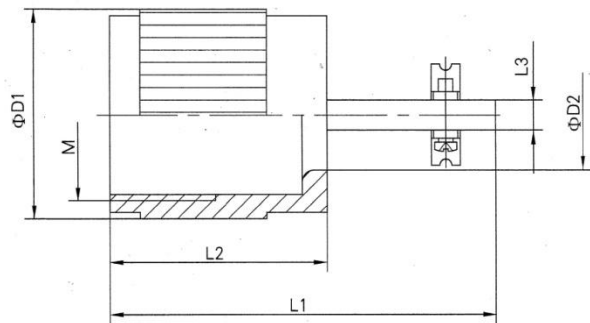
Receptacle



Shell No.	L	A	B ± 0.15
08	15	21	15
10	15	24	18
12	15	27	21
14	15	30	23
16	15	33	25
18	15	36	27
20	15	39	29
22	15	42	32
24	15	45	35

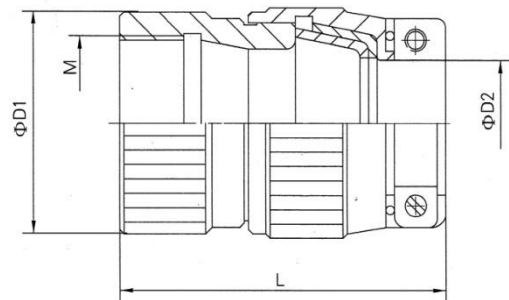
Shell No.	D1	D2	L1	L2	L3	Thread M
08	17.0	10	29	15	2.5	M14×1.0
10	20.0	12	29	15	2.5	M18×1.0
12	24.5	14	31	15	2.5	M20×1.0

Open back shell



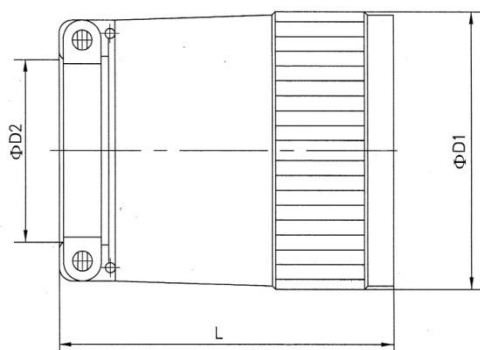
14	26.5	16	38	20	3.0	M24×1.0
16	29.5	18	39	20	3.0	M27×1.0
18	32.5	20	40	20	4.0	M30×1.0
20	35.5	20	42	22	4.5	M33×1.5
22	38.5	22	42	22	5.0	M36×1.5
24	41.5	24	47	27	5.0	M39×1.5

Shielded back shell



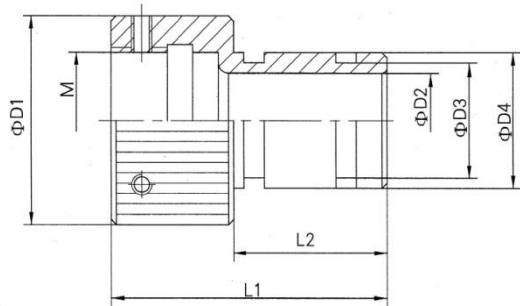
Shell No.	L	D1	D2	Thread M
08	35	18.0	10.0	M14×1.0
10	35	21.0	10.0	M18×1.0
12	37	25.5	14.5	M20×1.0
14	40	31.0	16.5	M24×1.0
16	40	31.0	16.5	M27×1.0
18	50	34.0	20.0	M30×1.0
20	50	34.0	22.5	M33×1.5
22	50	38.5	22.5	M36×1.5
24	50	41.5	24.0	M39×1.5

Long back shell



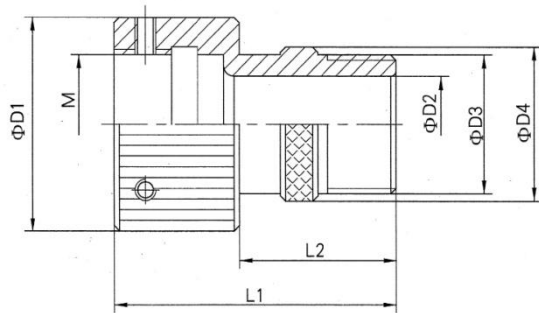
Shell No.	D1	D2	L
08	17.0	6	35
10	20.0	8	35
12	22.5	10	37
14	26.5	12	43
16	29.5	14	43
18	32.5	17	43
20	35.5	20	45
22	38.5	24	45
24	41.5	27	50

Heat shrinkable sleeve I



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
08	20.0	9	11	13	M14×1.0	27	15
10	24.0	10	12	14	M18×1.0	27	15
12	26.5	13	15	17	M20×1.0	30	15
14	30.5	17	19	21	M24×1.0	31	16
16	33.0	18	20	22	M27×1.0	31	18
18	36.0	23	25	27	M30×1.0	34	22
20	39.8	24	26	28	M33×1.5	35	20
22	42.0	27	29	31	M36×1.5	34	22
24	45.0	30	32	34	M39×1.5	36	24

Heat shrinkable sleeve II



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
08	20.0	8.7	12.8	14.8	M14×1.0	33	20
10	24.0	10.0	14.4	16.4	M18×1.0	33	20
12	26.5	15.0	19.1	21.1	M20×1.0	33	20
14	30.5	18.2	22.3	24.3	M24×1.0	33	20
16	33.0	18.2	22.3	25.3	M27×1.0	33	20
18	36.0	24.5	28.7	30.7	M30×1.0	33	20
20	39.8	24.5	28.7	30.7	M33×1.5	35	20
22	42.0	27.5	31.8	33.8	M36×1.5	35	20
24	45.0	30.0	31.8	34.0	M39×1.5	35	20