

## Y11 series connector



The Y11 series of circular sealed connectors, featuring quick connection, quick separation, small size and light weight, are provided with the internal bayonet locking, solder contacts, and shielded or non-shielded shells, compliant with Chinese military standard GJB101A-97.

# Part number

Y11 X III 20 41 Z J 10 2

## Basic series

**Type: X = Sealed by sealant**

**P = Shielding sealed by sealant**

**P<sub>1</sub> = 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/s<sup>2</sup>

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

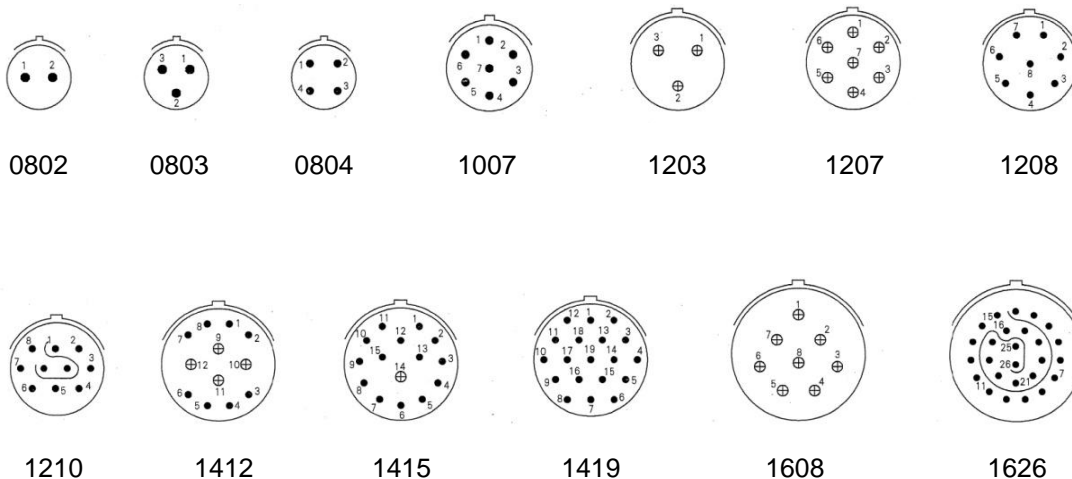
### Insulation resistance:

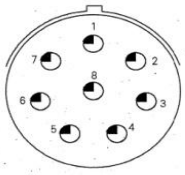
Sea level	High humidity	High temperature	Under rain
≥ 3000MΩ	≥ 20MΩ	≥ 500MΩ	≥ 20MΩ

### Withstanding voltage:

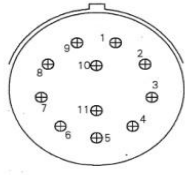
Sea level	21000 m	Humidity and heat
1500 V	200 V	500 V

## Contact layout

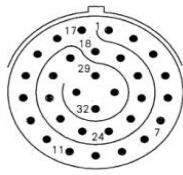




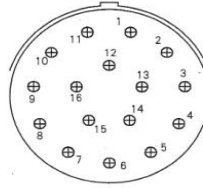
1808



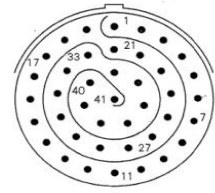
1811



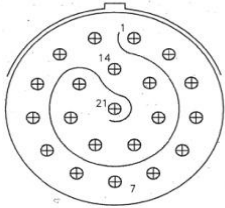
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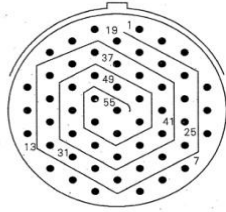
2016



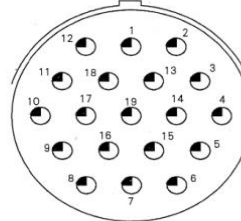
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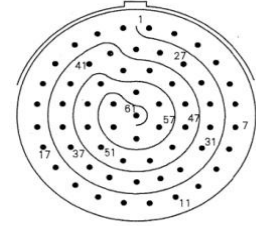
2221



2255



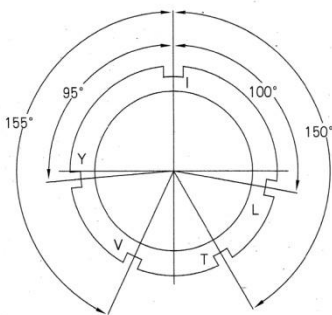
2419



2461

●  $\Phi$ 1     $\oplus$   $\Phi$ 1.5     $\ominus$   $\Phi$ 2.5

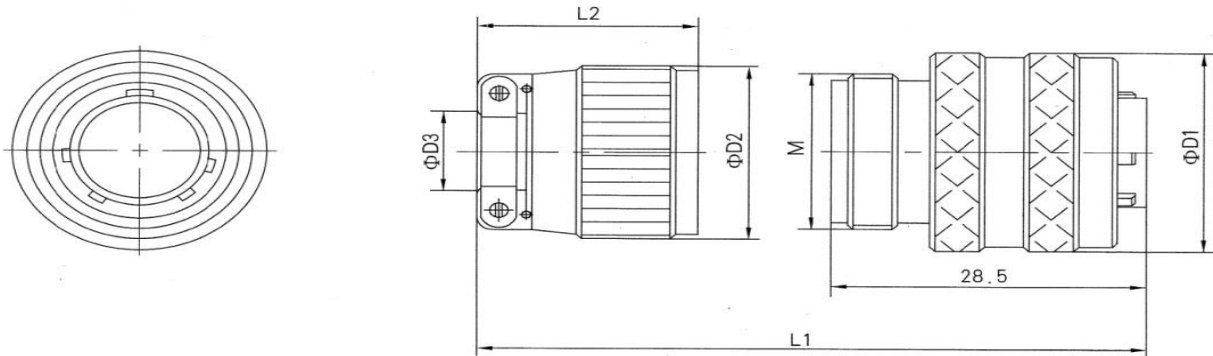
## Orientation



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

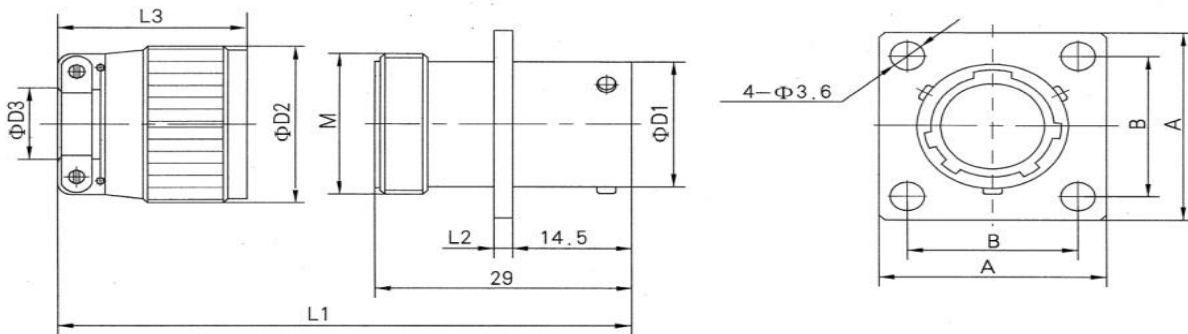
## Shell size

### Plug



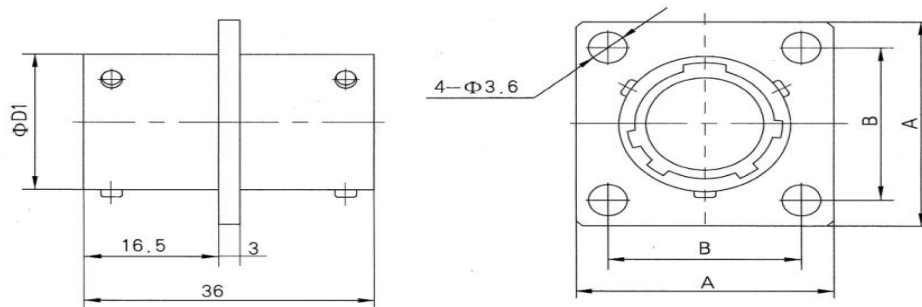
Shell No.	D1	Thread M	D2	D3	L1± 2	L2
08	20	M14×1.0	17.0	6	41.0	20
10	23	M18×1.0	20.0	8	41.0	20
12	26	M20×1.0	22.5	10	43.0	22
14	30	M24×1.0	26.5	12	49.0	28
16	33	M27×1.0	29.5	14	49.0	28
18	36	M30×1.0	32.5	17	49.0	28
20	39	M33×1.5	35.5	20	50.5	30
22	42	M36×1.5	38.5	24	50.5	30
24	45	M39×1.5	41.5	27	55.0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

## Square flange receptacle



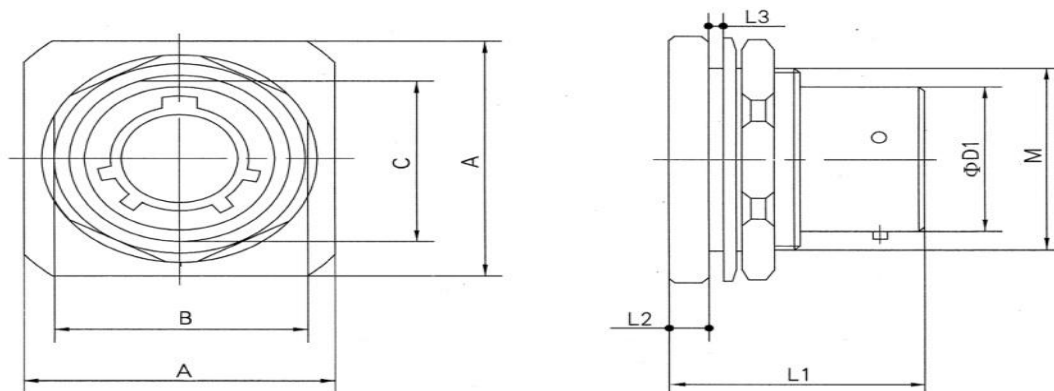
Shell No.	A	B ± 0.15	D1	D2	D3	Thread M	L1±2	L2	L3
08	21	15	13	17.0	6	M14×1.0	41.5	1.5	20
10	24	18	16	20.0	8	M18×1.0	41.5	1.5	20
12	27	21	20	22.5	10	M20×1.0	43.5	1.5	22
14	30	23	23	26.5	12	M24×1.0	49.5	1.5	28
16	33	25	26	29.5	14	M27×1.0	49.5	1.5	28
18	36	27	29	32.5	17	M30×1.0	49.5	1.5	28
20	39	29	32	35.5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

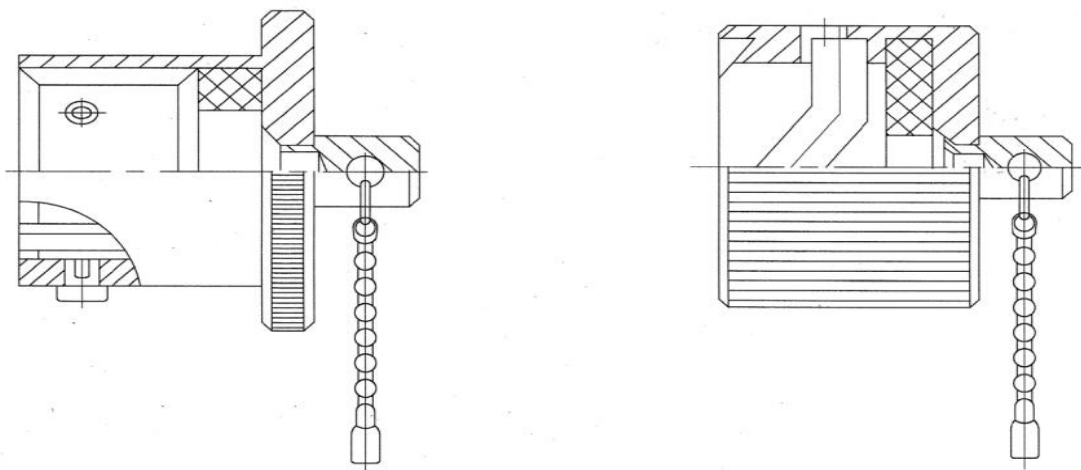
## Jam nut receptacle



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

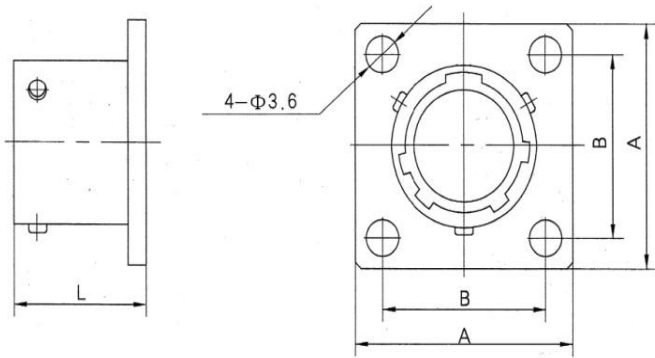
## Back shell and accessories

### Dust cap





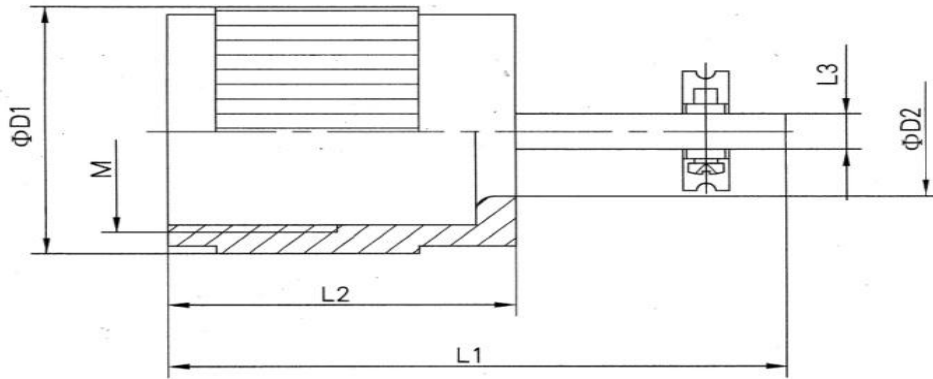
## Receptacle



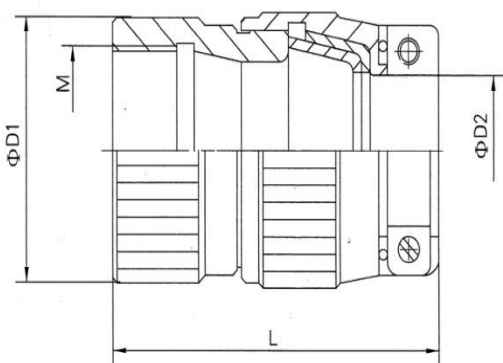
Shell No.	L	A	B ± 0.15
08	15	21	15
10	15	24	18
12	15	27	21
14	15	30	23
16	15	33	25
18	15	36	27
20	15	39	29
22	15	42	32
24	15	45	35

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
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

## Open back shell

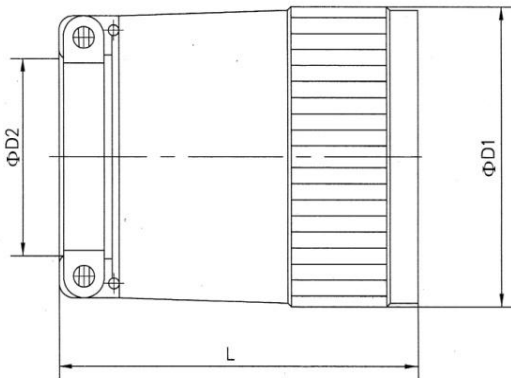


## Shielded back shell



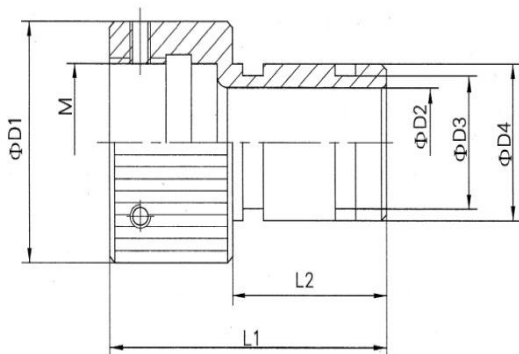
Shell No.	L	D1	D2	Thread M
08	35	18.0	10.0	M14×1.0
10	35	21.0	10.0	M18×1.0
12	37	25.5	14.5	M20×1.0
14	40	31.0	16.5	M24×1.0
16	40	31.0	16.5	M27×1.0
18	50	34.0	20.0	M30×1.0
20	50	34.0	22.5	M33×1.5
22	50	38.5	22.5	M36×1.5
24	50	41.5	24.0	M39×1.5

## Long back shell



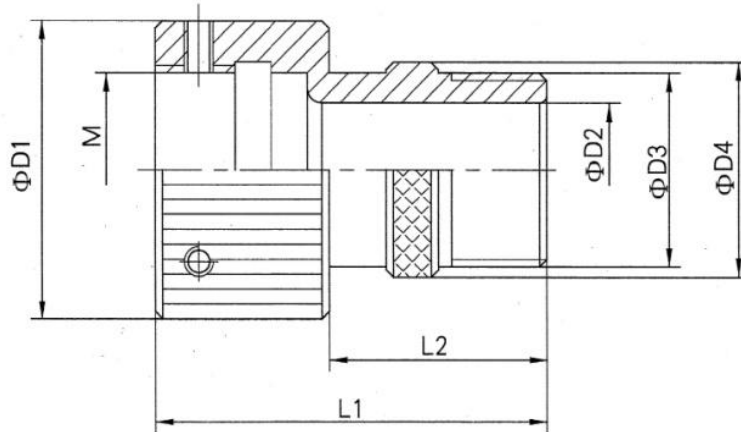
Shell No.	D1	D2	L
08	17.0	6	35
10	20.0	8	35
12	22.5	10	37
14	26.5	12	43
16	29.5	14	43
18	32.5	17	43
20	35.5	20	45
22	38.5	24	45
24	41.5	27	50

## 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