

Y3A series circular electrical connector



Conform to Chinese military connector standard GJB2905-2004 and GJB101A-97. Y3A series circular electrical connector is designed as push-pull coupling, EMI/RFI shielding, rain-proof, anti-shock, anti-salt spray.

Part number

	Y3A	II	18	32	T	J	2
Basic series							
Orientation							
I, II, III, IV, V							
Omit = I							
Shell size							
10, 12, 14, 16, 18, 20, 22, 24							
Number of contact							
4 ~ 61							
Type of connector							
T = Plug							
Z = Receptacle							
Type of contact							
J = Pin							
K = Socket							
Type of back shell							
2 = Cable connecting							
5 = Heat shrinkable sleeve series I							
5a = Heat shrinkable sleeve series II							
10 = Square flange							

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	Φ 2.5
Current (A)	5	10	25
Resistance (mΩ)	≤ 5.0	≤ 3.0	≤ 2.0

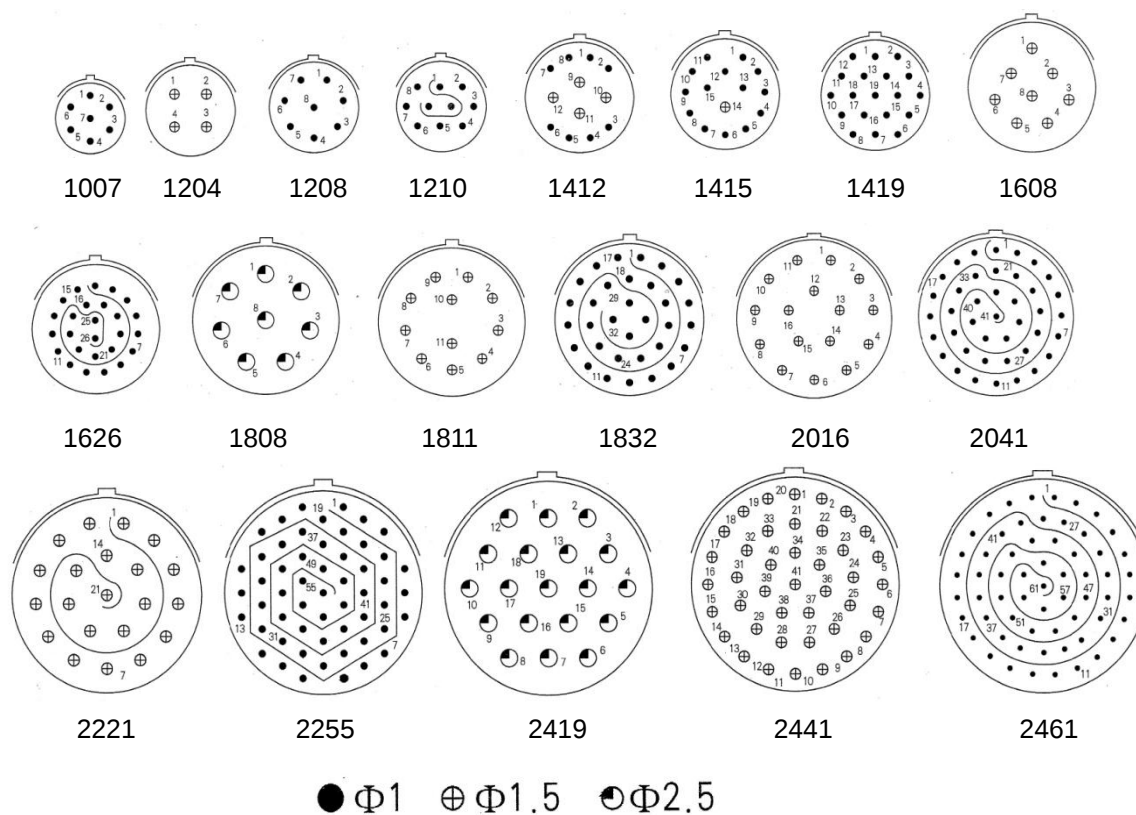
Insulation resistance:

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

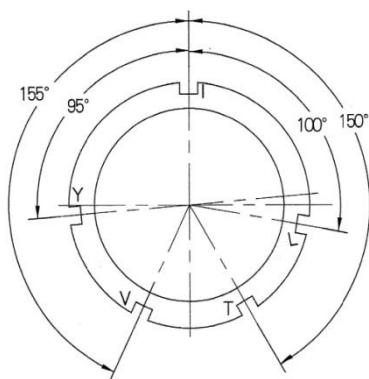
Withstanding voltage:

Y3A series	Voltage (V)
Sea level	1500
21000 m	250

Contact layout



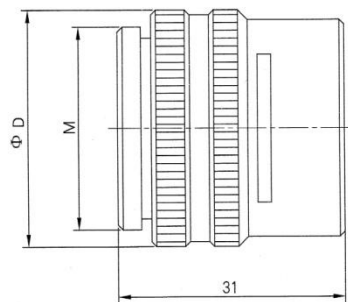
Orientation



Sign	Letter for sign	angle
I	I	0°
II	L	100°
III	T	150°
IV	V	155°
V	Y	95°

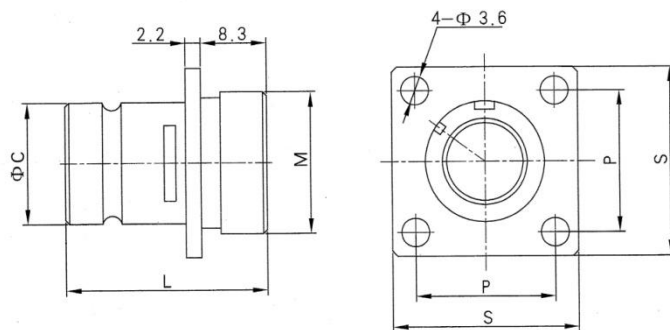
Shell size

Plug



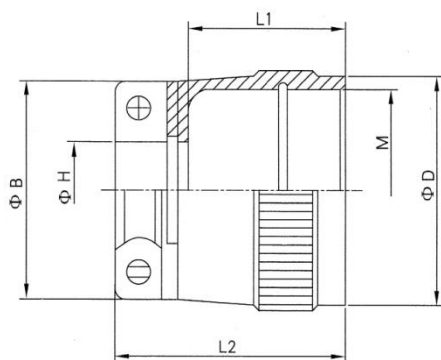
Shell No.	Thread M	ΦD
10	M18×1.0	24
12	M20×1.0	27
14	M24×1.0	30
16	M27×1.0	33
18	M29×1.0	36
20	M33×1.0	39
22	M36×1.5	42
24	M39×1.5	45

Receptacle



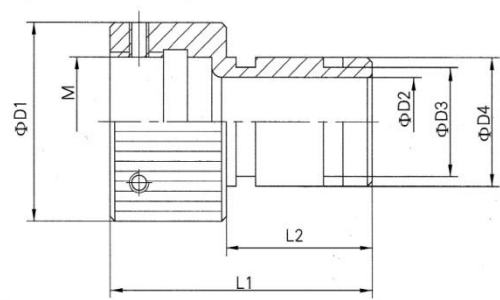
Shell No.	S	P	ΦC	Thread M	L
10	24	18 ± 0.15	15.4	M18×1.0	26
12	27	21 ± 0.15	18.4	M20×1.0	26
14	30	23 ± 0.15	21.4	M24×1.0	26
16	33	25 ± 0.15	24.4	M27×1.0	26
18	36	27 ± 0.15	27.4	M29×1.0	26
20	39	29 ± 0.15	30.4	M33×1.0	26
22	42	32 ± 0.15	33.4	M36×1.5	26
24	45	35 ± 0.15	36.4	M39×1.5	26

Cable connecting



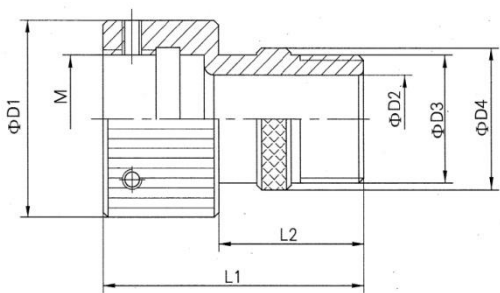
Shell No.	ΦB	H	Thread M	ΦD	L1	L2
10	17.5	8	M18×1.0	20.0	13.0	20
12	20.5	10	M20×1.0	22.5	15.0	22
14	24.0	12	M24×1.0	26.5	20.0	28
16	26.5	14	M27×1.0	29.0	18.0	28
18	28.0	17	M29×1.0	31.5	21.0	28
20	33.0	20	M33×1.0	35.5	21.5	30
22	36.0	24	M36×1.5	38.5	21.5	30
24	39.0	27	M38×1.5	41.5	25.0	34

Heat shrinkable sleeve series I



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
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	18	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	M38×1.5	36	24

Heat shrinkable sleeve series II



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
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	M38×1.5	35	20