

YL11 series circular electrical connector



Conform to Chinese military connector standard GJB101A-1997. YL11 series is designed as bayonet coupling, rain-proof, small size and high density.

Part number

	YL11	H	16	R	12	07	J	A	01	150°	1
Basic series											
Type between contact and cable											
H = Solder											
B = Solder with PCB											
Type of plug and receptacle											
10 = Square flange receptacle											
20 = Shielded square flange receptacle											
14 = Jam nut receptacle											
24 = Shielded jam nut receptacle											
16 = Plug											
26 = Shielded plug											
19 = Thru bulkhead square flange receptacle											
29 = Shielded thru bulkhead square flange receptacle											
Finish											
R = Black anodized											
W = Olive drab anodized											
N = Electroless nickel plating											
B = Cadmium plating											
S = Stainless steel passivated											
Y = Grey anodized											
Shell size											
06, 08, 10, 12, 14, 16, 18, 20, 22, 24											
Number of contact											
4 ~ 61											
Type of contact											
J = Male pin											
K = Female pin											
Sign of special contact											
A, B, C... (May omit)											
Sign of back shell											
01 = Straight hermetic cable avoid turn											
02 = Straight cable clamp											
03 = Hermetic back with rubber											
04 = 90° elbow hermetic cable avoid turn											
05 = 90° elbow cable clamp											
21 = Shielded straight hermetic cable avoid turn											
22 = Shielded straight cable clamp											
23 = Shielded hermetic back with rubber											
24 = Shielded 90° elbow hermetic cable avoid turn											
25 = Shielded 90° elbow cable clamp											
Orientation											
N, W, X, Y, Z											
Omit = N											
Sign of special shell											
1, 2, 3, 4, 5 (May omit)											

Performance specification

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

Operating atmospheric pressure: 4.39 kPa ~ 101.33 kPa

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

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

Durability: ≥ 1000 cycles

Electrical performance

Contact resistance and rating current:

Contact diameter (mm)	Contact resistance (mΩ)	Rated current (A)	Max cable diameter (mm)
Φ 1.0	5.00	7.5	Φ 0.812
Φ 1.5	3.00	13.0	Φ 1.291

Operating voltage and withstanding voltage

Sea level		Low pressure	
Operating voltage (v)	Withstanding voltage (v)	Operating voltage (v)	Withstanding voltage (v)
600	1500	150	300

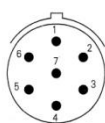
Insulation resistance

Normal	Elevated temperature	Humid
≥ 5000 (MΩ)	≥ 500 (MΩ)	≥ 100 (MΩ)

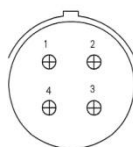
Contact layout



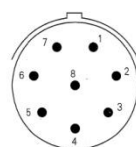
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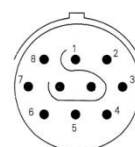
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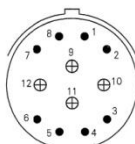
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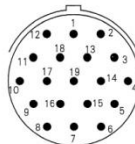
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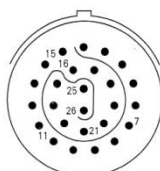
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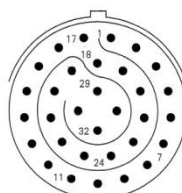
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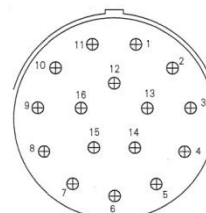
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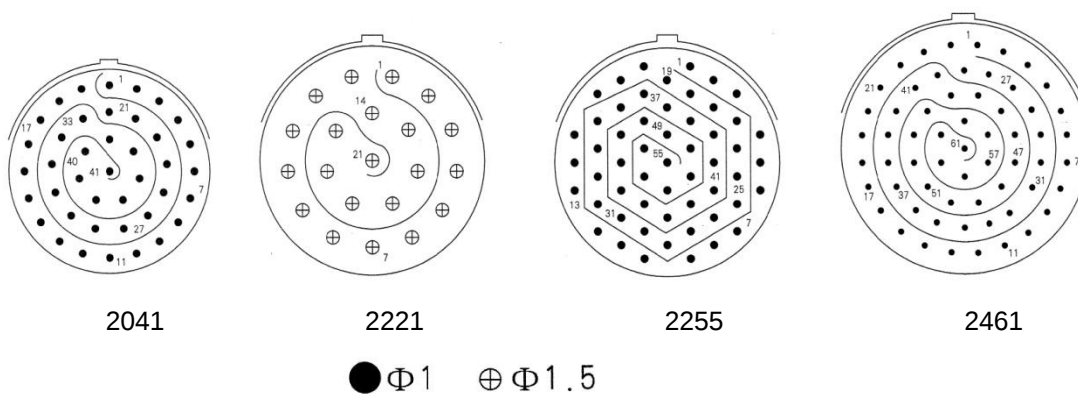
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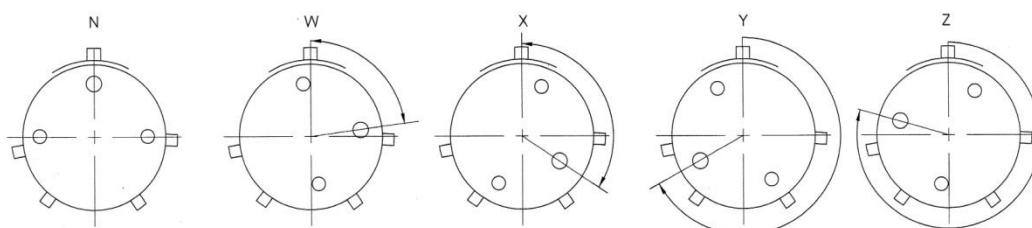
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2016



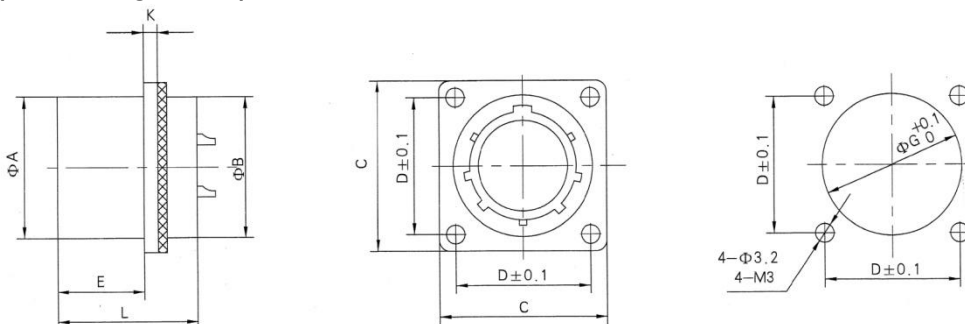
Polarization



Degree				
I	II	III	IV	V
0°	100°	150°	205°	265°

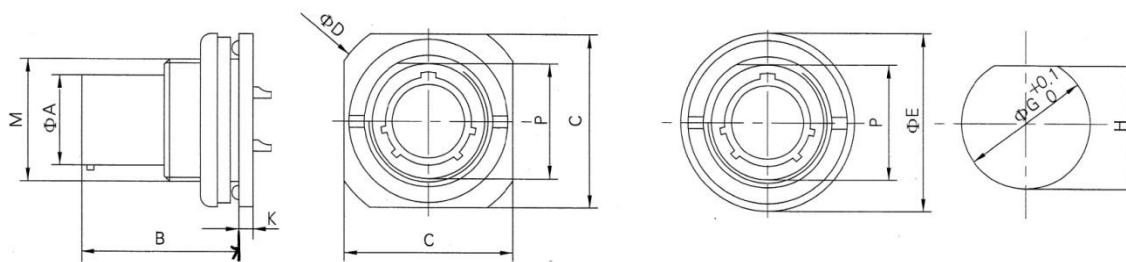
Shell size

Square flange receptacle



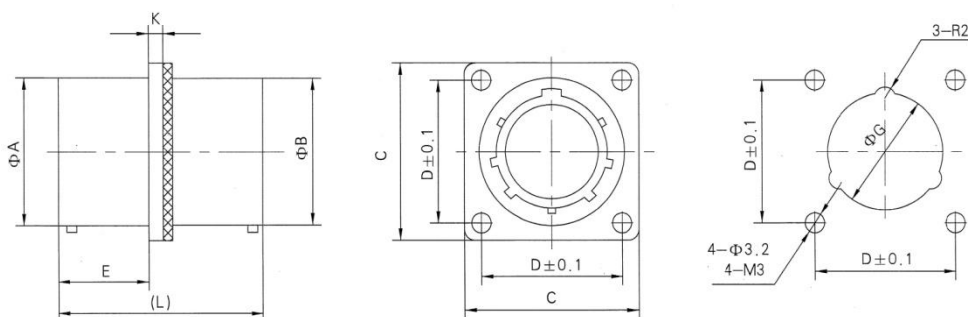
Shell size	Φ A	Φ B	C	D	E	Φ G	K	L (for reference)
08	13	13	21	15	14.5	13.5	1.5	21.0
10	16	16	24	18	14.5	16.5	1.5	21.0
12	20	20	27	21	14.5	20.5	1.5	23.0
14	23	23	30	23	14.5	23.5	1.5	21.0
16	26	26	32	25	14.5	26.5	1.5	24.0
18	29	29	36	27	14.5	29.5	1.5	24.0
20	32	32	39	29	14.5	32.5	2.0	25.5
22	35	35	42	32	14.5	35.5	2.0	26.5
24	38	38	45	35	14.5	38.5	2.2	26.5

Jam nut receptacle



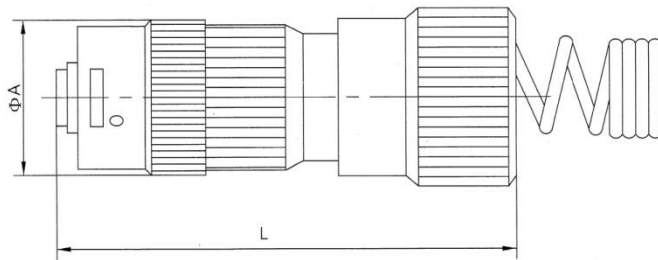
Shell size	ΦA	B	C	ΦD	ΦE	P	K	ΦG	H	Thread M
08	13	18.5	24	31.2	22.0	15.0	2.5	16.2	15.2	M16×1
10	16	18.5	25	30.8	23.5	16.9	2.5	18.2	17.2	M18×1
12	20	20.5	32	39	32.0	22.1	2.5	24.2	22.3	M24×1
14	23	18.5	35	40	34.5	25.1	2.5	27.2	25.3	M27×1.5
16	26	21.5	38	45.2	38.0	28.1	2.5	30.2	28.3	M30×1
18	29	21.5	41	47.2	41.0	31.1	2.5	33.2	31.3	M33×1.5
20	32	21.5	46	50.2	46.0	35.0	3.0	36.2	35.2	M36×1.5
22	35	21.5	50	54.2	50.0	37.2	3.0	39.2	37.4	M39×1.5
24	38	21.5	53	56.2	53	40.2	3.0	42.2	40.4	M42×1.5

Thru bulkhead flange receptacle



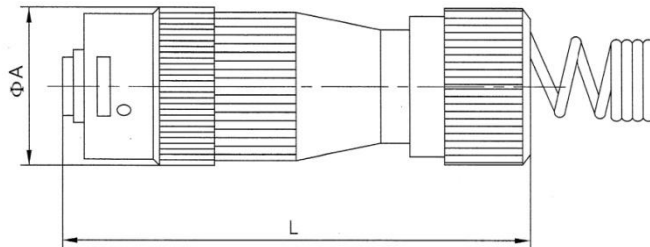
Shell size	ΦA	ΦB	C	D	E	ΦG	K	L (for reference)
08	13	13	21	15	16.5	13.5	2.0	31.8
10	16	16	24	18	16.5	16.5	2.0	31.8
12	20	20	27	21	16.5	20.5	2.0	34
14	23	23	30	23	16.5	23.5	2.0	34
16	26	26	32	25	16.5	26.5	2.0	34
18	29	29	36	27	16.5	29.5	2.0	34
20	32	32	39	29	16.5	32.5	2.5	36
22	35	35	42	32	16.5	35.5	2.5	36
24	38	38	45	35	16.5	38.5	2.5	36

Straight hermetic cable avoid turn plug



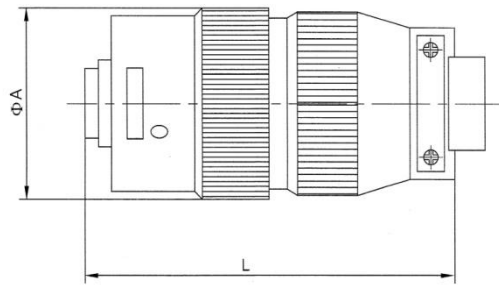
Shell size	Φ A	Cable diameter	L (for reference)
08	20.0	6	47
10	24.5	6	51.5
12	26.5	9	52.5
14	31.0	12	57.5
16	32.0	14	59
18	35.0	15	58
20	40.0	16	68
22	42.2	16	68
24	47.6	16	75

Shielded straight hermetic cable avoid turn plug



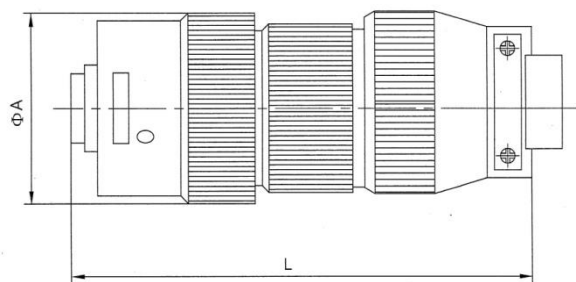
Shell size	Φ A	Cable diameter	L (for reference)
08	20.0	6	54.5
10	24.5	6	58
12	26.5	9	58
14	31.0	12	58
16	32.0	14	59
18	35.0	15	58
20	40.0	16	62
22	42.2	16	76
24	47.6	16	70

Straight cable clamp plug



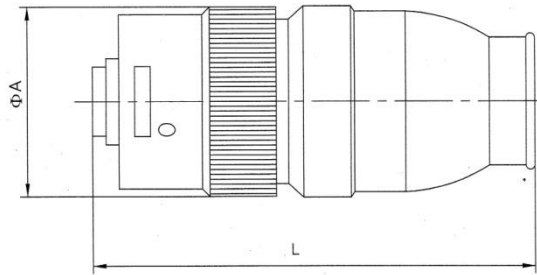
Shell size	Φ A	Cable diameter	L (for reference)
08	20.0	6	37
10	24.5	6	40
12	26.5	9	43
14	31.0	12	47
16	32.0	14	48
18	35.0	15	48
20	40.0	16	52
22	42.2	16	62
24	47.6	16	52

Shielded straight cable clamp plug



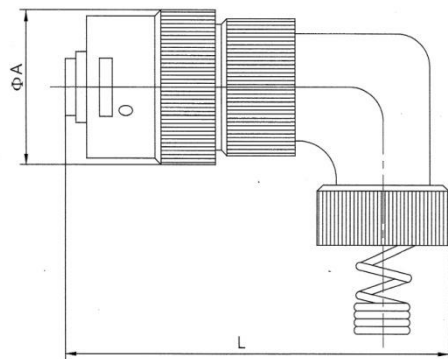
Shell size	Φ A	Cable diameter	L (for reference)
08	20	6	53
10	24.5	6	53
12	26.5	9	53
14	31	12	53
16	32	14	64.5
18	35	15	63
20	40	16	66
22	42.2	16	66
24	47.6	16	66

Shielded hermetic back with rubber



Shell size	Φ A	Cable diameter	L (for reference)
08	20	6	73.5
10	24.5	6	77
12	26.5	9	79
14	31	12	84.5
16	32	14	85
18	35	15	90
20	40	16	91
22	42.2	16	91
24	47.6	16	92.1

90° elbow hermetic cable avoid turn



Shell size	Φ A	Cable diameter	L (for reference)
08	20	6	42
10	24.5	6	45
12	26.5	9	50.7
14	31	12	64.7
16	32	14	66
18	35	15	70
20	40	16	70
22	42.2	16	74
24	47.6	16	75.1