

Y25 series circular electrical connector



Conform to Chinese military connector standard Q/Ag1.087.1-2002, Y25 series is designed as thread coupling, rain-proof, dust-proof and shielding shell.

Part number

	Y25	X	II	37	-04	Z	J	11	d
Basic series									
Type									
X = Hermetic by reperfusion of sealant, may omit									
H = Hermetic by sintered glass									
Orientation									
I, II, III, IV, V, VI									
Omit = I									
Shell size									
07, 12, 19, 27, 37, 48, 61									
Number of contact									
03, 04, 06, 10, 12, 14, 16, 19, 22, 24, 27, 37, 41, 48, 61									
Type of connector									
T = Plug									
Z = Receptacle									
Type of contact									
J = Pin									
K = Socket									
Type of receptacle									
10 = Square flange receptacle									
11 = Circular flange receptacle									
14 = Jam nut receptacle									
Material of shell									
d = Aluminum-alloy									
Omit = Copper-alloy									

Performance specification

Operating temperature range: -55 °C ~ +140 °C

Shock: Max acceleration 500 m/s²

Relative humidity: 90 ~ 98% at 40 ± °C

Endurance: ≥ 1000 cycles

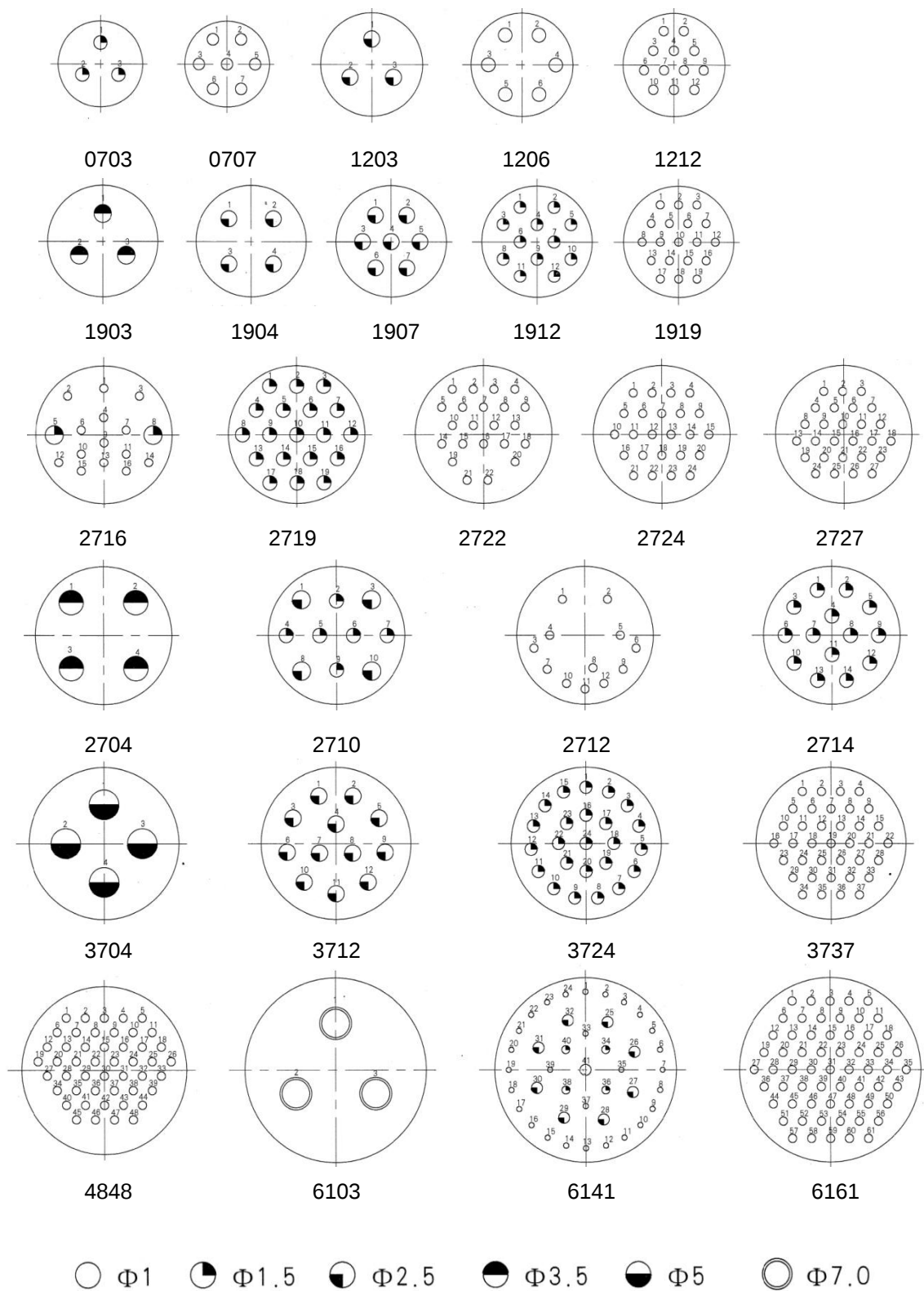
Contact resistance and current rating:

Diameter (mm)	Φ 1.0	Φ 1.5	Φ 2.5	Φ 3.5	Φ 5.0	Φ 7.0
Current (A)	7.5	13.0	23.0	46.0	63.0	100.0
Resistance (mΩ)	≤ 5	≤ 3	≤ 2	≤ 1	≤ 1	≤ 1

Insulation resistance:

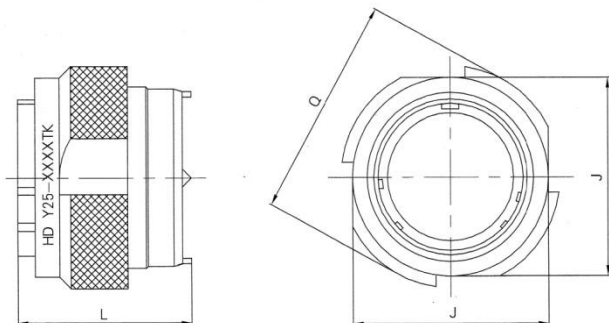
Sea level	High humidity	High temperature	Under water
≥ 5000MΩ	≥ 50MΩ	≥ 500MΩ	≥ 50MΩ

Contact layout



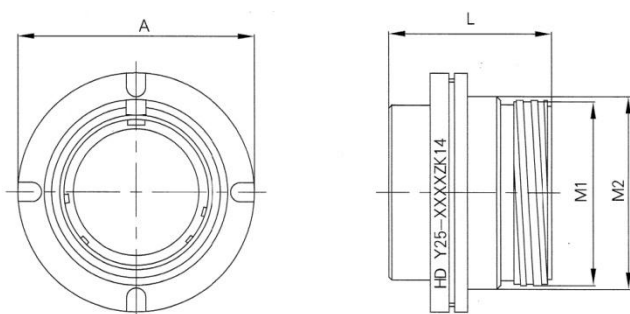
Shell size

Plug



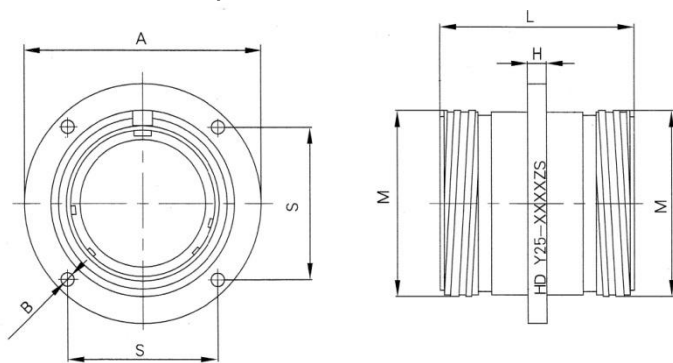
Shell size	L	J	Φ D
07	41.5	29.0	32
12	41.5	33.0	36
19	41.5	37.0	40
27	41.5	42.0	46
37	41.5	45.6	50
48	41.5	49.5	54
61	41.5	53.0	57

Jam nut receptacle



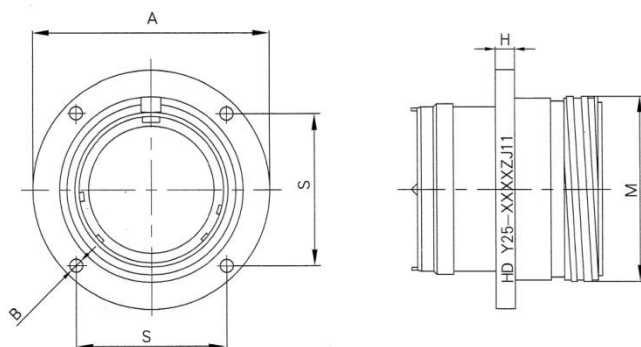
Shell size	L	Thread M1	Thread M2	Φ A
12	43.5	T _r 28*3	M30*1.0	45
19	43.5	T _r 32*3	M36*1.5	50
27	43.5	T _r 36*3	M40*1.5	54
37	43.5	T _r 40*3	M45*1.5	58
48	43.5	T _r 44*3	M48*1.5	62

Thru bulkhead receptacle



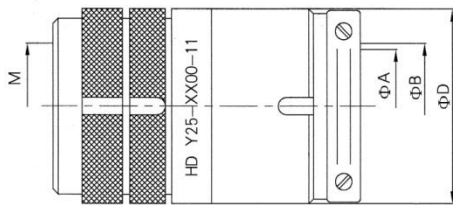
Shell size	L	Thread M	Φ A	Φ B	S	H
07	59	T _r 24*3	38	3.3 ± 0.10	22 ± 0.10	4
12	59	T _r 28*3	44	3.3 ± 0.10	27 ± 0.10	4
19	59	T _r 32*3	46	3.3 ± 0.10	28 ± 0.10	4
27	59	T _r 36*3	49	3.3 ± 0.10	30 ± 0.10	5
37	59	T _r 40*3	53	3.3 ± 0.10	33 ± 0.10	5
48	59	T _r 44*3	56	3.3 ± 0.10	35 ± 0.10	5
61	59	T _r 46*3	59	3.3 ± 0.10	37 ± 0.10	5

Circular flange receptacle



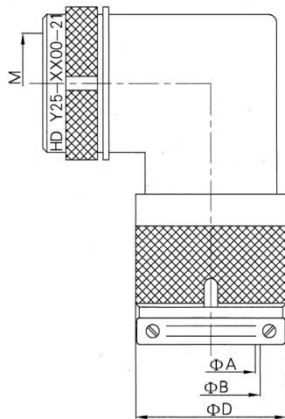
Shell size	L	Thread M	Φ A	Φ B	S	H
07	51	T _r 24*3	38	3.3 ± 0.10	22 ± 0.10	4
12	51	T _r 28*3	44	3.3 ± 0.10	27 ± 0.10	4
19	51	T _r 32*3	46	3.3 ± 0.10	28 ± 0.10	4
27	51	T _r 36*3	49	3.3 ± 0.10	30 ± 0.10	4
37	51	T _r 40*3	53	3.3 ± 0.10	33 ± 0.10	5
48	51	T _r 44*3	56	3.3 ± 0.10	35 ± 0.10	5
61	51	T _r 46*3	59	3.3 ± 0.10	37 ± 0.10	5

Straight shielded back shell



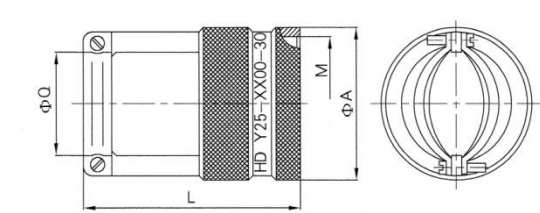
Shell size	Thread M	Φ A			Φ B			Φ D	L
		No.1	No.2	No.3	No.1	No.2	No.3		
07	M20*1.0	6	10	14	7	11	15	28	80
12	M24*1.0	11	15	19	11.5	15	19	32	80
19	M28*1.0	15	18	23	16	20	24	37	80
27	M33*1.5	19	23	27	20	24	28	42	85
37	M36*1.5	22	26	30	23	27	31	46	85
48	M40*1.5	25	29	33	26	30	34	49	85
61	M45*1.5	30	34	38	31	35	39	54	90

90° Elbow shielded back shell



Shell size	Thread M	Φ A			Φ B			Φ D
		No.1	No.2	No.3	No.1	No.2	No.3	
07	M20*1.0	6	10	14	7	11	15	28
12	M24*1.0	11	15	19	11.5	15	19	32
19	M28*1.0	15	18	23	16	20	24	37
27	M33*1.5	19	23	27	20	24	28	42
37	M36*1.5	22	26	30	23	27	31	46
48	M40*1.5	25	29	33	26	30	34	49
61	M45*1.5	30	34	38	31	35	39	54

Cable clamp back shell



Shell size	ΦD	M	ΦA	L
37	22	M36*1.5	38.5	45
61	38	M45*1.5	50.0	45

Dust cap

