

Y16 series circular electrical connector



Conform to Chinese military connector standard Q/HD20030-2006. Y16 series is designed as center bolt coupling, used in circuit connecting of various electronic and electrical equipments.

Part number

	Y16	P	24	30	Z	J	10
Basic series							
Type							
P = Thin shell							
H = Thick shell							
N = Shielding							
E = Hermetic receptacle by sintered glass							
Shell No.							
18, 24, 30							
Number of contact							
04, 05, 12, 14, 16, 30, 38, 48							
Type of connector							
T = Plug							
Z = Receptacle							
Type of contact							
J = Pin							
K = Socket							
S = Contact of thru-bulkhead							
Type of receptacle							
10 = Square flange receptacle							
13 = Square flange receptacle thru bulkhead							
14 = Jam nut receptacle							

Performance specification

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

Shock: Max acceleration 980 m/s²

Relative humidity: 92 ~ 98% at 40 ± °C

Endurance: ≥ 1000 cycles

Contact resistance and current rating:

Diameter (mm)	Φ 1.0	Φ 1.3	Φ 1.5	Φ 2.5	Φ 3.0	Φ 3.5	Φ 5.0
Current (A)	5	7	10	25	30	60	75
Resistance (mΩ)	≤ 5	≤ 4	≤ 3	≤ 1	≤ 1	≤ 1	≤ 1

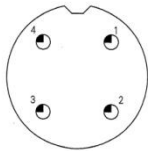
Insulation resistance:

Sea level	High humidity	High temperature
≥ 1000MΩ	≥ 20MΩ	≥ 500MΩ

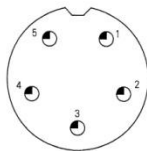
Withstanding voltage:

Sea level	21000 m	Humidity and heat	High temperature
1500 V	150 V	500 V	1500 V

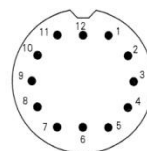
Contact layout



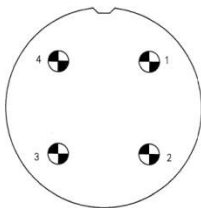
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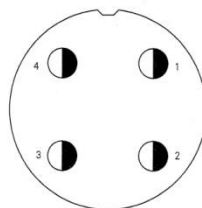
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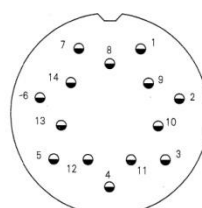
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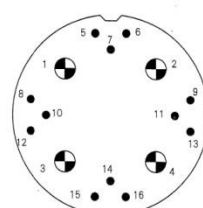
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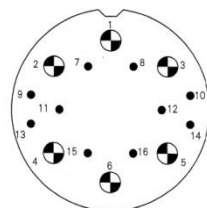
2404 I



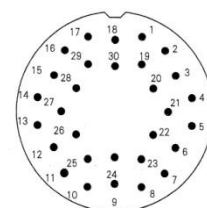
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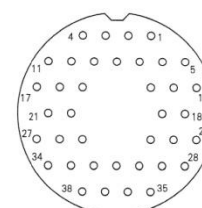
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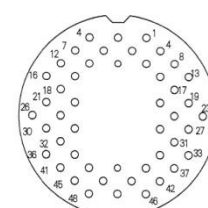
2416 I



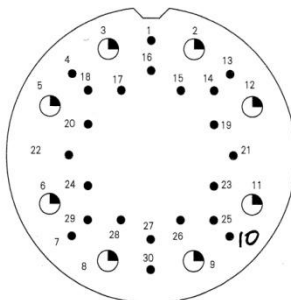
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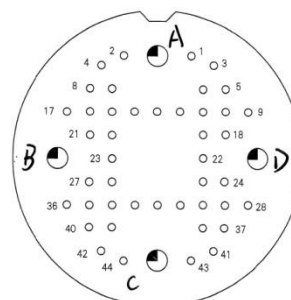
2438



2448



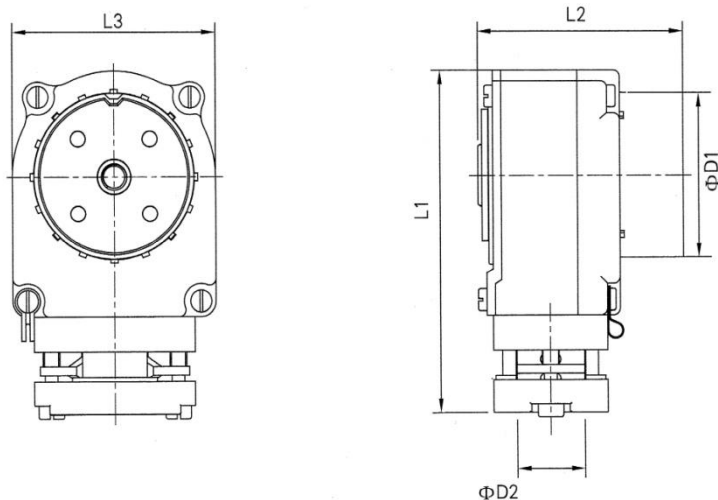
3030



3048

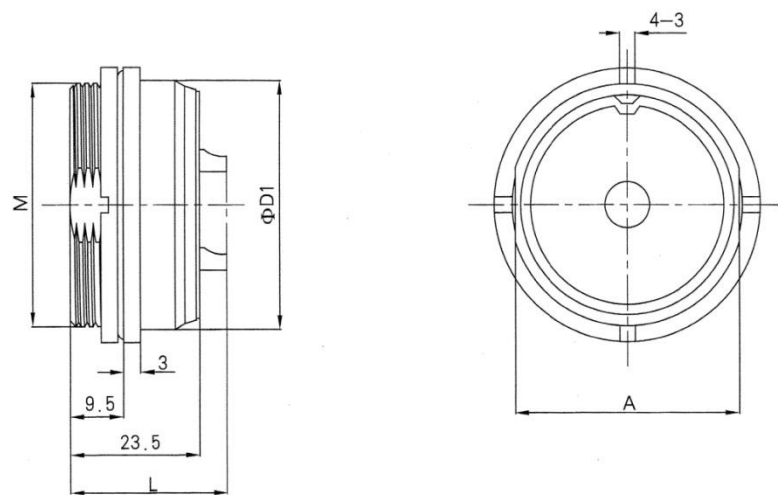
Shell size

Plug (without N class)



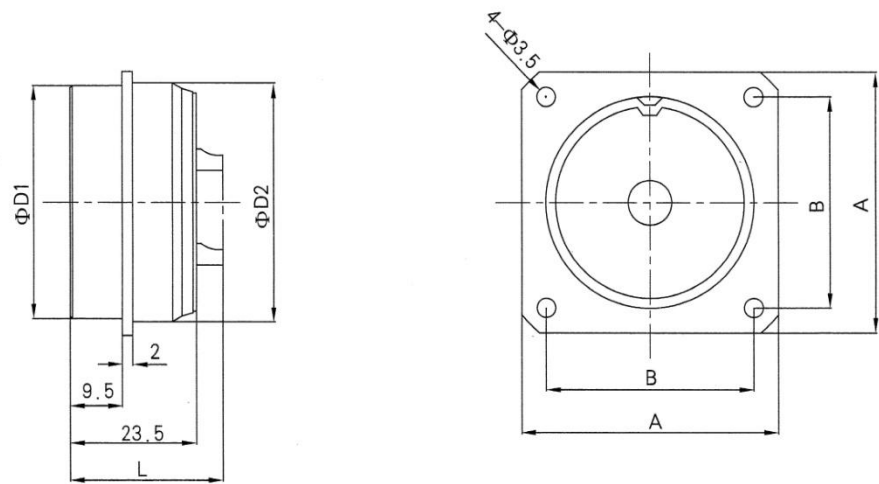
Shell No.	Style	Type	L3	Φ D1 ± 0.2	L1	L2 ± 1	Φ D2
18	1804	P	38	28	69.5 ± 2	42.0	12.0
	1805	H				48.5	12.5
	1812						
24	2404	P	48	38	77.5 ± 2	48.5	18.0
	2414	H				55.0	22.0
	2430						
	2438	P			71.5 ± 2	55.0	22.0
	2448					H	75.5
	2416						
	2416 I						
30	3030	—	51	41	75.5 ± 2	75.5	26.5
	3048						

Jam nut receptacle (without N class)



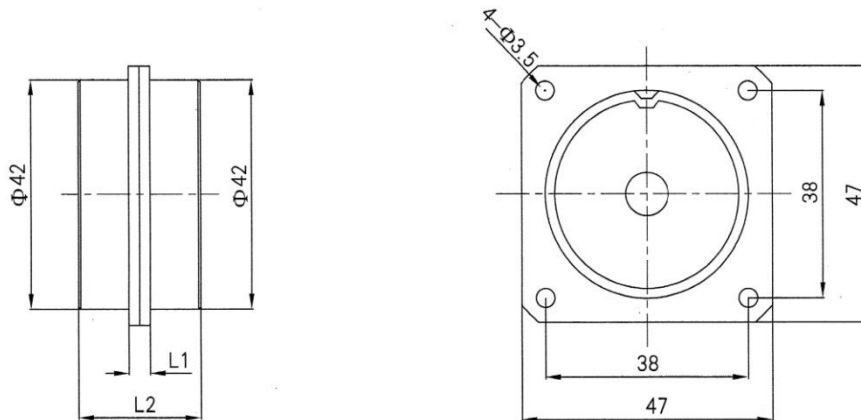
Shell No.	Style	L	D1	Thread M	A
18	1804	28.0	33	M32×1.5	30—0.13
	1805				
	1812	26.5			
24	2404	26.5	43	M42×1.5	40—0.16
	2414				
	2430				
	2438				
	2448				

Square flange receptacle (without N class)



Shell No.	Style	D1	D2	L	A	B ± 0.125
18	1804	32	33	28.0	38	30
	1805			26.5		
	1812					
24	2404	42	43	26.5	47	38
	2404 I					
	2414			29.0		
	2416					
	2416 I			26.5		
	2430					
30	3030	45	46	26.5	52	41
	3048			28.0		

Square flange receptacle thru bulkhead for shell No. 24



Style	L1	L2
Y16-24	3	35
Y16N-24	4	37