

Y2PX series circular electrical connector



Conform to Chinese military connector standard HB6-77-83, Y2PX series is designed as bayonet coupling, shielding.

Part number

	Y2PX	42	J	30	A	Q	2	B
Basic series								
Shell size	14, 18, 22, 24, 27, 30, 33, 36, 39, 42, 45							
Type of contact	J = Pin K = Socket							
Number of contact	4 ~ 50							
Type of receptacle	A = Unsealed M = Sealed							
Back shell	P = Straight shielding Q = Straight unshielding R = 90° elbow shielding S = 90° elbow unshielding U = Shielding thread guard							
Contact number	1 ~ 9 (See below datasheet I)							
Material of shell	B = Stainless steel Omit = Aluminum-alloy							

Performance specification

Operating temperature range: -60 °C ~ +125 °C

Relative humidity: 40±2 °C, 95% ~ 96%

Constant acceleration: 490 m/s²

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

Atmospheric pressure: 1.1kPa~101.33 kPa

Shock: Acceleration 735 m/s²

Endurance: ≥ 500 cycles

Electrical performance

Contact specification

Contact diameter (mm)	Φ 1	Φ 1.5	Φ 2	Φ 3
Rated current (A)	5.0	10	20	40
Resistance (mΩ)	≤ 5	≤ 3	≤ 2	≤ 1

Withstanding voltage (50Hz, AC)

Normal	1500 v
80 KPa	≥ 400 v
0.67 KPa	≥ 200 v

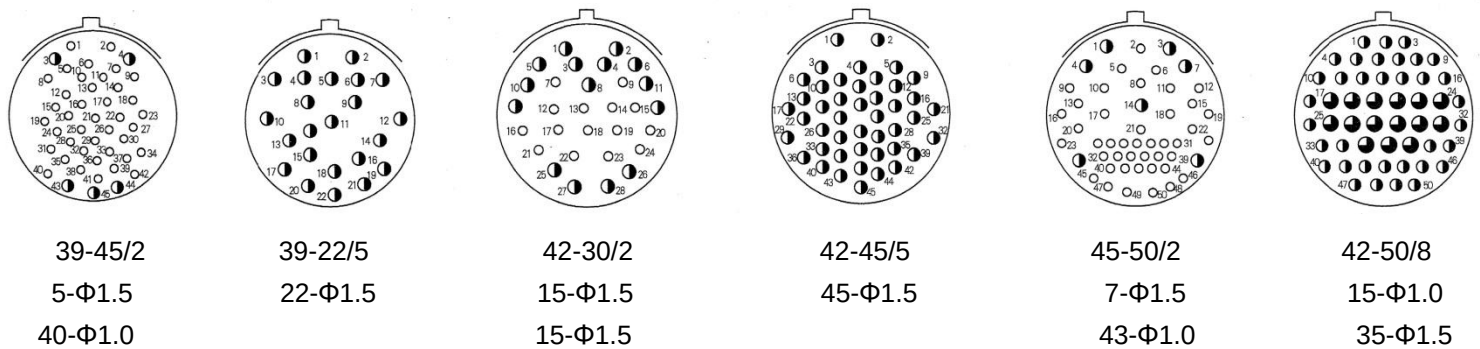
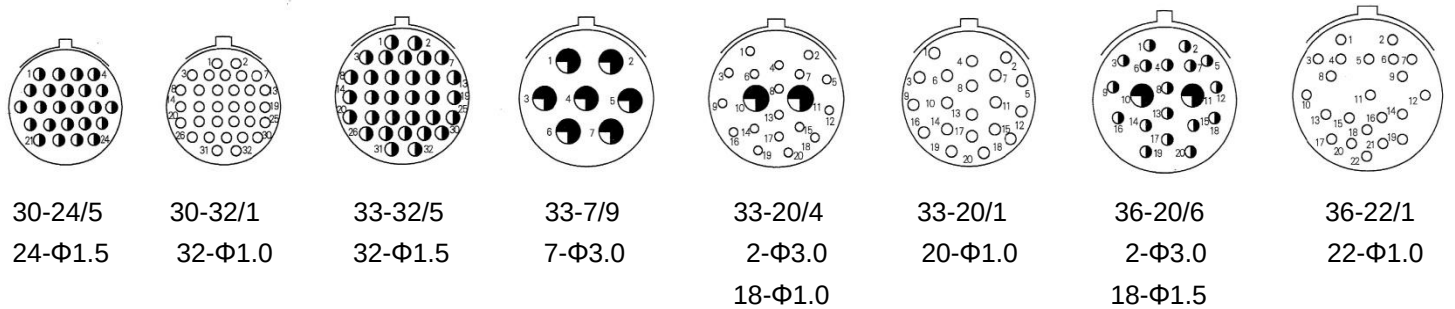
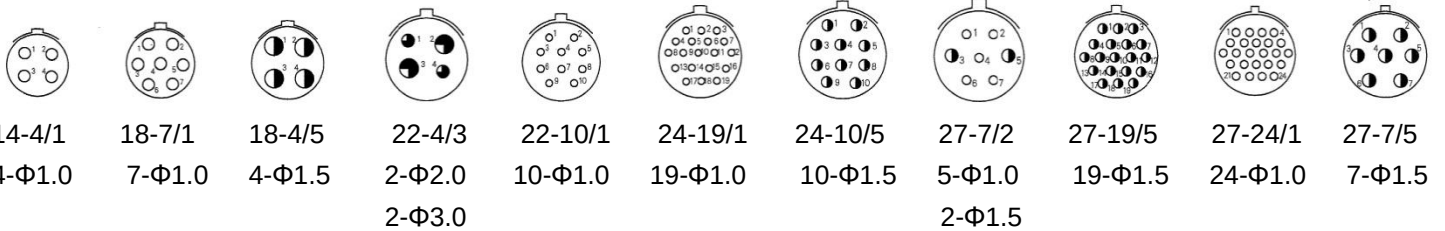
Insulation resistance

Standard atmosphere	Humid	Elevated temperature
≥ 1000 MΩ	≥ 20 MΩ	≥ 50 MΩ

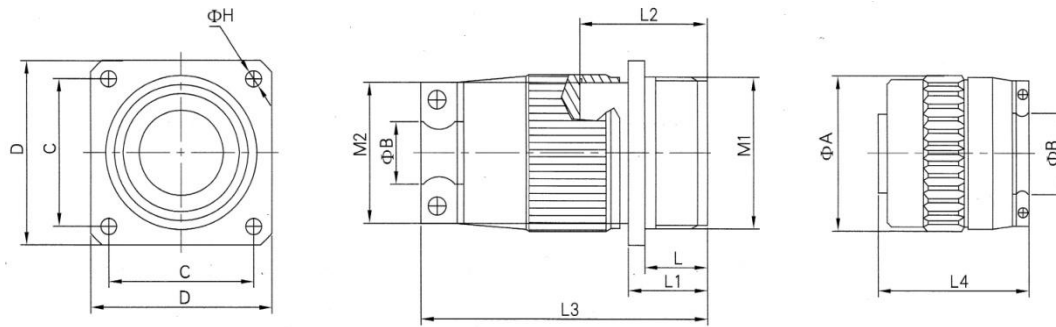
Datasheet I

No.	1	2	3	4	5	6	7	8	9
Resultant	Φ1	Φ1+Φ1.5	Φ2+Φ3	Φ1+Φ3	Φ1.5	Φ1.5+Φ3	Φ1.5+Φ2+Φ3	Φ1.5+Φ2	Φ3

Contact layout



Shell size



Shell Size	ΦA	ΦB	C	D	L	L1	L2	L3	L4	ΦH	Thread M2	Thread M1
14	22	6	17	24	13	16	21	33	33	3.5	M14×1	M16×1.5
18	25	8	20	27	13	16	21	33	33	3.5	M18×1	M20×1.5
22	30	10	23	30	13	16	21	36	36	3.5	M22×1	M24×1.5
24	33	12	26	33	13	16	21	36	36	3.5	M24×1	M27×1.5
27	36	14	29	36	13	16	21	39	39	3.5	M27×1	M30×1.5
30	38	17	31	38	13	16	21	39	39	3.5	M30×1	M33×1.5
33	40	20	32	40	13	16	21	42	42	3.5	M33×1	M36×1.5
36	45	24	35	43	13	16	21	42	42	3.5	M36×1	M39×1.5
39	49	27	37	46	13	16	21	45	45	3.5	M39×1	M42×1.5
42	51	30	40	49	13	16	21	45	45	3.5	M42×1	M45×1.5
45	54	35	43	52	13	16	21	45	45	3.5	M45×1	M48×1.5