

Y50DX series circular electrical connector



Conform to Chinese military connector standard GJB101A-97, Y50DX series is the upgrade from Y50X series, designed as bayonet coupling, small volume, high density, big current.

Part number

	Y50DX	12	-03	T	J	2	III	H	S
Basic series									
Shell size									
10, 12, 14, 16, 18, 20, 22, 24, 28, 32, D4									
Number of contact									
02, 03, 04, 05, 06									
Type of connector									
T = Plug									
Z = Receptacle									
Type of contact									
J = Pin									
K = Socket									
SJ = Thru bulkhead Pin									
SK = Thru bulkhead Socket									
Type of plug and receptacle (See below datasheet I)									
Orientation									
Omit = N									
N, W, X, Y, Z (See below)									
Finish									
P1 = Electroless nickel plating									
P2 = Bright nickel plating									
P3 = Half bright nickel plating									
H1 = Conductive black									
L2 = Olive drab cadmium plating									
H = Black anodized									
L = Olive drab anodized									
L1 = Olive drab matte									
L3 = White anodized									
Material of shell									
S = Cooper-alloy									
B = Stainless steel passivated									
Omit = Aluminium-alloy									

Performance specification

Operating temperature range: -55 °C~ +150 °C

Corrosion resistance: Withstand 48 hours salt spray (5% NaCl fog)

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: ≥ 500 cycles

Contact

Diameter for contact (Φ)	1.50	2.39	2.50	3.00	3.50	4.00	5.00	6.00	7.00	9.00	10.00	12.00
Current (A)	10	25	30	50	50	60	75	100	100	150	200	250
Resistance (mΩ)	≤ 3	≤ 2	≤ 2	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1

Contact layout



1004
4-Φ1.5



1202
2-Φ3



1203
3-Φ2.39



1203 I
3-Φ2.39



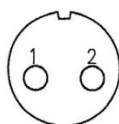
1203 II
3-Φ2.5



1204
4-Φ2.39



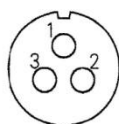
1204 I
4-Φ2.5



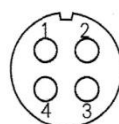
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2-Φ3.5



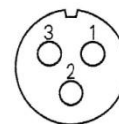
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3-Φ3



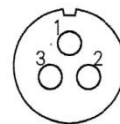
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3-Φ3



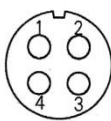
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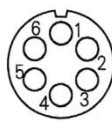
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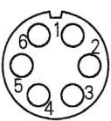
1603 I
3-Φ3.5



1604
4-Φ3.5



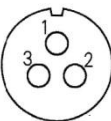
1606
6-Φ3



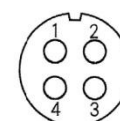
1606 I
6-Φ3



1803
3-Φ4



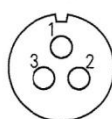
1803 I
3-Φ4



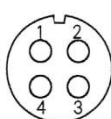
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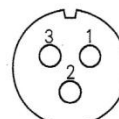
2003
3-Φ6



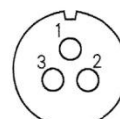
2003 I
3-Φ6



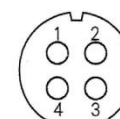
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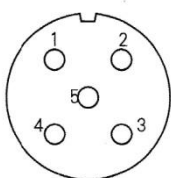
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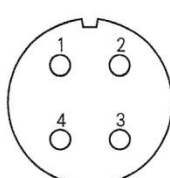
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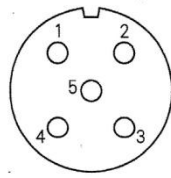
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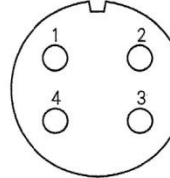
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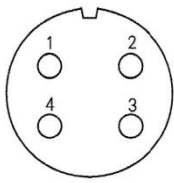
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4-Φ7



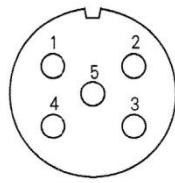
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5-Φ7



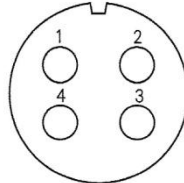
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4-Φ6



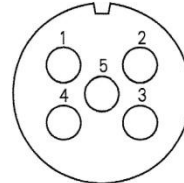
3204
4-Φ9



3205
5-Φ7

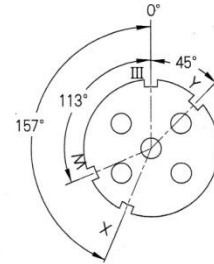
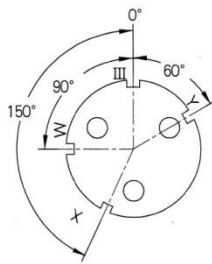
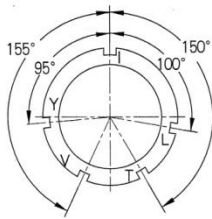


D404
4-Φ12



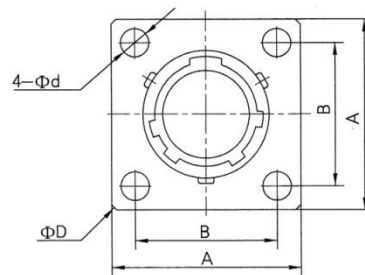
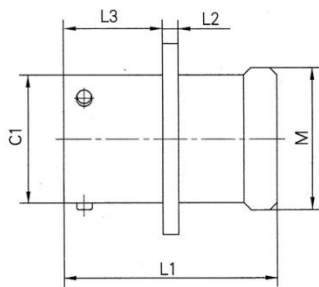
D405
5-Φ10

Orientation



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

Shell size



Shell No.	L1	L2	L3	C1	M	A	B	d	D
32	33.2	2.5	12.5	45.3	46	50	41	5.2	67
38	28.5	3.5	12.5	50.0	50	57	47	5.2	76
D4	70.0	6.0	30.0	70.0	70	80	60	6.5	98