

YXK series circular electrical connector



Conform to Chinese military connector standard HB6112-86 and HB6-77-83, YXK series is designed as bayonet coupling, small volume, solder or crimp contact.

Part number

	YXK	E	24	Y	J	26	T	G	1
Basic series									
Type									
P = Solder contact (may omit)									
E = Crimp contact									
Shell size									
11, 14, 18, 24, 27, 30, 36									
Type of receptacle									
Y = Circle flange receptacle									
Omit = Square flange receptacle									
Type of contact									
J = Pin									
K = Socket									
Number of contact									
03 ~ 55									
Type of plug and receptacle									
Z = Unsealed receptacle									
M = Sealed receptacle									
C = Sealed thru bulkhead receptacle									
Back shell									
G or E = Straight									
P = Shielding									
Orientation									
1, 2, 3, 4									
Omit = Standard									

Performance specification

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

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

Operating atmospheric pressure: 2.3 kPa

Vibration: at 10 Hz ~ 2000 Hz, acceleration 15 g

Shock: acceleration 30 g

Constant acceleration: 25 g

Rated voltage: 500V (XK11-3 115V)

Air tightness: 202 KPa

Endurance: ≥ 500 cycles

Electrical performance

Insulation resistance

Normal	Humid
$\geq 1000 \text{ (M}\Omega\text{)}$	$\geq 20 \text{ (M}\Omega\text{)}$

Withstanding voltage (50Hz, AC)

Sea Level	$\geq 2100 \text{ m}$
$\geq 1500 \text{ v}$	$\geq 1000 \text{ v}$

Specification of contact

Contact diameter (mm)	$\Phi 1$	$\Phi 1.5$	$\Phi 2$	$\Phi 3$	$\Phi 4$
Current rating (A)	5.0	10	20	40	60
Resistance (M Ω)	≤ 5	≤ 3	≤ 2	≤ 1	≤ 1

Contact layout



11-2



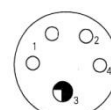
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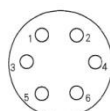
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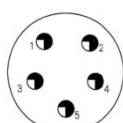
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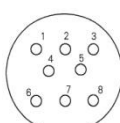
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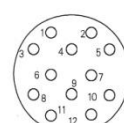
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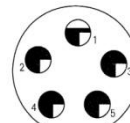
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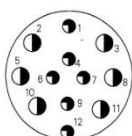
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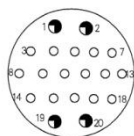
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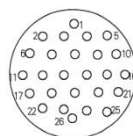
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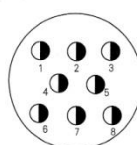
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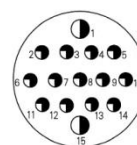
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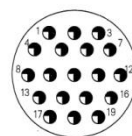
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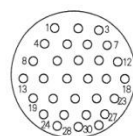
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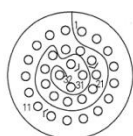
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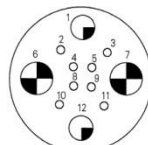
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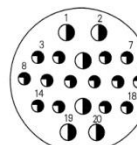
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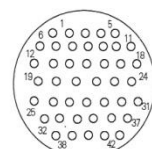
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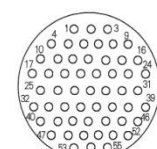
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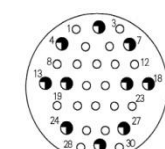
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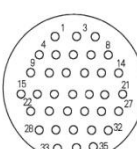
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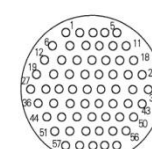
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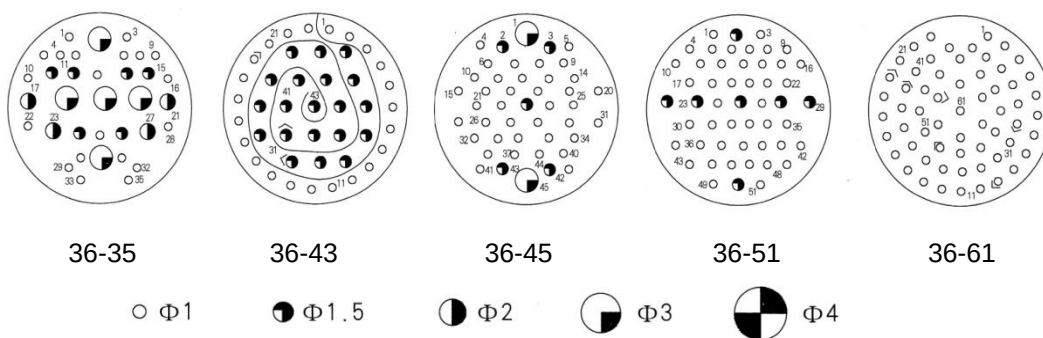
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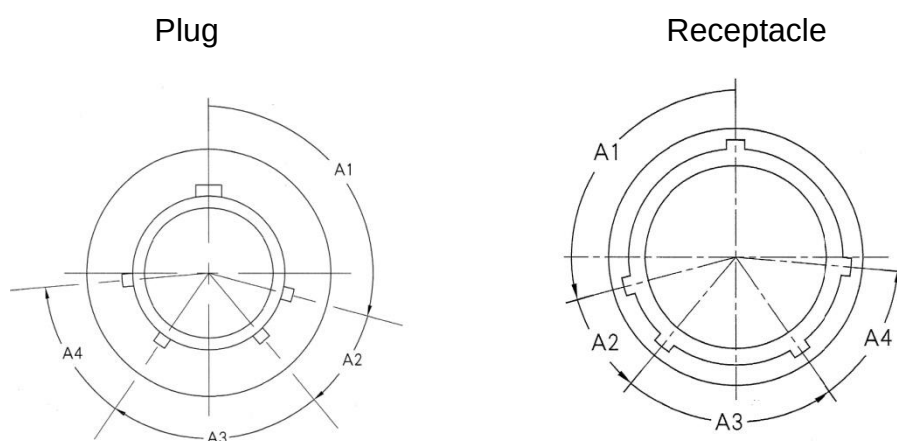
30-35



30-61



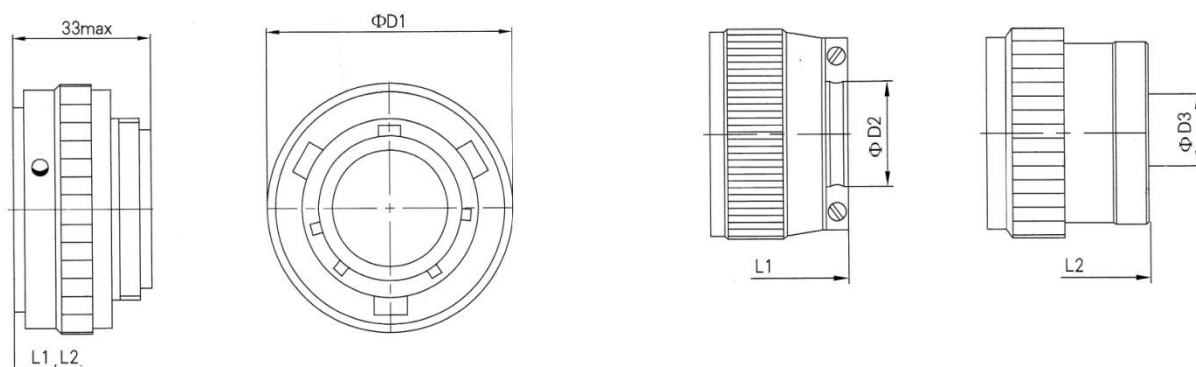
Orientation



Degree Key position	A1		A2		A3		A4	
	XK11	Others	XK11	Others	XK11	Others	XK11	Others
Standard	105°		140°		215°		265°	
1	102°		132°		248°		320°	
2	80°		118°		230°		312°	
3	35°		140°		235°	205°	275°	
4	110°	64°	155°		234°		270°	304°

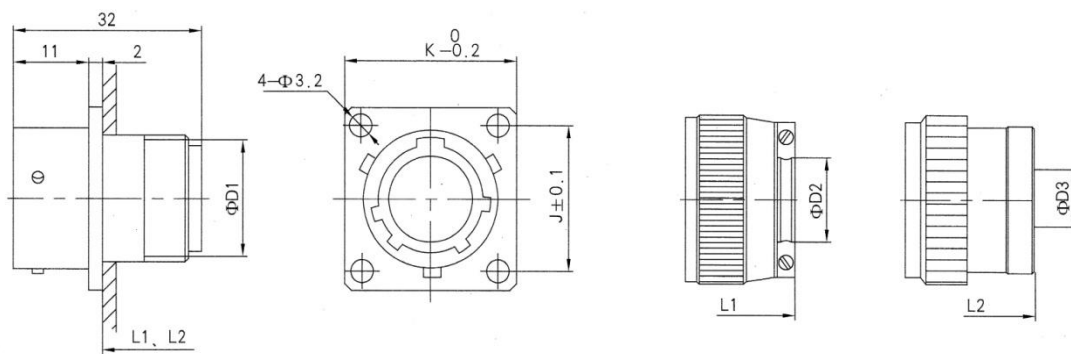
Shell size

Plug



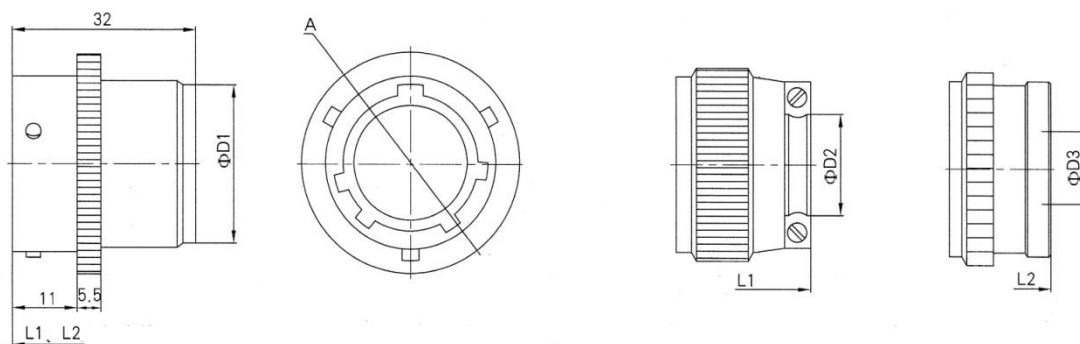
Shell size	11	14	18	24	27	30	36
L1	44.5	44.5	44.5	54.0	54.0	54.0	54.0
L2	55.0	55.0	55.0	55.0	55.0	55.0	55.0
Φ D1	19.0	22.0	26.0	32.0	35.0	38.0	44.0
Φ D2	5.0	7.0	9.0	15.0	20.0	22.0	28.0
Φ D3	7.0	9.5	13.5	19.5	22.5	25.5	31.5

Square flange receptacle



Shell size	11	14	18	24	27	30	36
L1	30.8	30.8	30.8	31.0	41.0	41.0	41.0
L2	41.3	41.3	41.3	41.3	41.3	41.3	41.3
Φ D1	11.0	14.0	18.0	24.0	27.0	30.0	36.0
Φ D2	5.0	7.0	9.0	15.0	20.0	22.0	28.0
Φ D3	7.0	9.5	13.5	19.5	22.5	25.5	31.5
J	16.5	19.0	21.5	26.0	28.0	30.0	34.0
K	22.0	25.0	27.5	32.0	34.5	36.5	41.0

Circle receptacle



Shell size	11	14	18	24	27	30	36
L1	43.8	43.8	43.8	53.8	53.8	53.8	53.8
L2	54.3	54.3	54.3	54.3	54.3	54.3	54.3
Φ A	17.0	20.0	24.0	30.0	33.5	35.5	42.5
Φ D1	11.0	14.0	18.0	24.0	27.0	30.0	36.0
Φ D2	5.0	7.0	9.0	15.0	20.0	22.0	28.0
Φ D3	7.0	9.5	13.5	19.5	22.5	25.5	31.5