



**RỒNG VÀNG
TECHNOLOGY**



Ultra-Small Electrical Connector
PPC series
substitutes of Russian
RRS3, RRS4, RRS5, RRS6

www.rong-vang-technology.vn



Description

The receptacles & bulkhead feedthroughs of this series consist of six sealed versions:

- PPC3 – solder fixing receptacles with standard flange not accepting backshells (solder cup);
- PPC3 – solder fixing receptacles with reduced flange not accepting backshells, for 10 and 19 contacts only (solder cup);
- PPC4 – jam nut receptacles not accepting backshells (solder cup);
- PPC5 – square flange receptacles not accepting backshells (solder cup);
- PPC5P – square flange receptacles not accepting backshells (PC Tail);
- PPC6-P – bulkhead feedthroughs;

The plugs of this series consist of three versions:

- PPC3-0 – cable connecting plugs without backshell (solder cup);
- PPC3-7 – cable connecting plugs with straight backshell (solder cup);
- PPC3-9 – cable connecting plugs with elbow backshell (solder cup);



Connectors of PPC intended for use in DC, AC (frequency up to 3 MHz) and pulse currents (pulse period up 1 to 60 sec)

Shells Sizes:

- Solder fixing receptacles, PPC3 type with shell sizes 14 and 18 have a reduced flange;
- Other connectors are of standard design;

Coupling type: thread

Contacts: \varnothing 1 mm, non-removable (solder cup & PC Tail)

Contact Type:

- For receptacles – pins only;
- For plugs – sockets only;
- For bulkhead feedthroughs – pins/pins only;

Contact plating:

- For PPC3, PPC4 – Gold or Silver;
- For PPC5P – Gold only;
- For PPC5, PPC6 – nickel only;

These connectors are manufactured for inner mounting for all climates in accordance with the technical conditions GEO.364.215TU

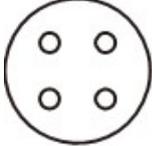
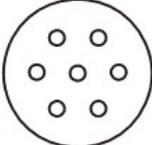
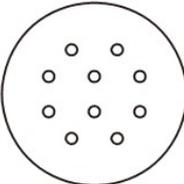
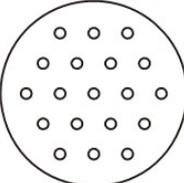
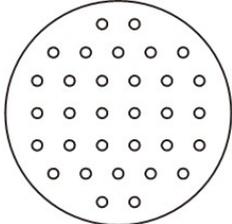
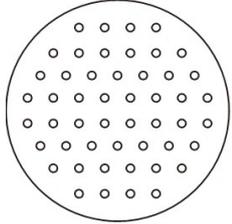
Technical features

Description	Values
Operating temperature	up -60°C to +100°C
Working pressure	up to $1.3 * 10^{-10}$ Pa
Max current rating per contact	up to 1.5 A
Working voltage	200 V
Contact resistance	≤ 5 m Ω
Insulation resistance	≥ 1000 M Ω Normal temperature ≥ 20 M Ω High temperature
Durability	250 cycles
Storage time	5 years
Technical conditions	GEO.364.215TU

Ordering information

Basic series	PPC	3	-10	A	-1	-1	-B
Version Type:							
3: solder fixing receptacles not accepting backshells (solder cup)							
4: jam nut receptacles not accepting backshells (solder cup)							
5: square flange receptacles not accepting backshells (solder cup)							
5P: square flange receptacles not accepting backshells (PC Tail)							
6: bulkhead feedthroughs							
3: cable connecting plugs (solder cup)							
Number of contacts: 4, 7, 10, 19, 32, 50							
Contact plating:							
Omit: Nickel							
A: Gold							
B: Silver							
Connector type:							
1: receptacle without backshell							
0: cable connecting plug without backshell (solder cup)							
7: cable connecting plug with straight backshell (solder cup)							
9: cable connecting plug with elbow backshell (solder cup)							
P: bulkhead feedthrough (for PPC6 only)							
Orientation key: 1 – 12							
All weather (Obligatory suffix)							

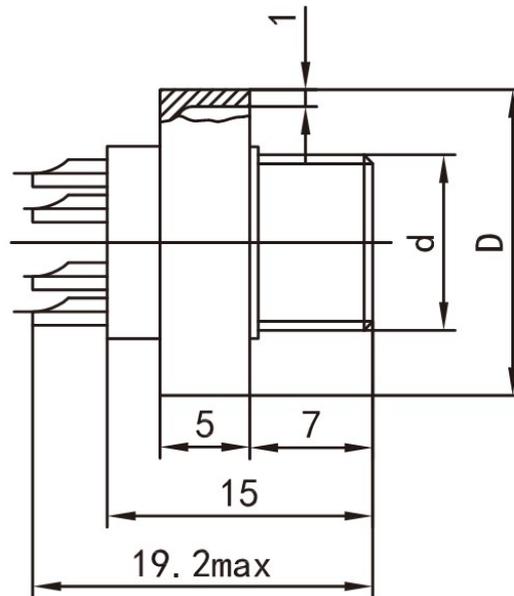
Contact layouts

Shell Size	Contact layouts	Number of Contacts	Orientation keys	Max current rating per contact, A
10		4	1	1.5
12		7		
14		10	1 (2, 3, 4, 5)	
18		19	1 (2, 3, 4)	1.1
22		32	1 (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)	0.9
27		50		0.7

NOTE: Bulkhead feedthroughs are produced with only one polarization key value – 1

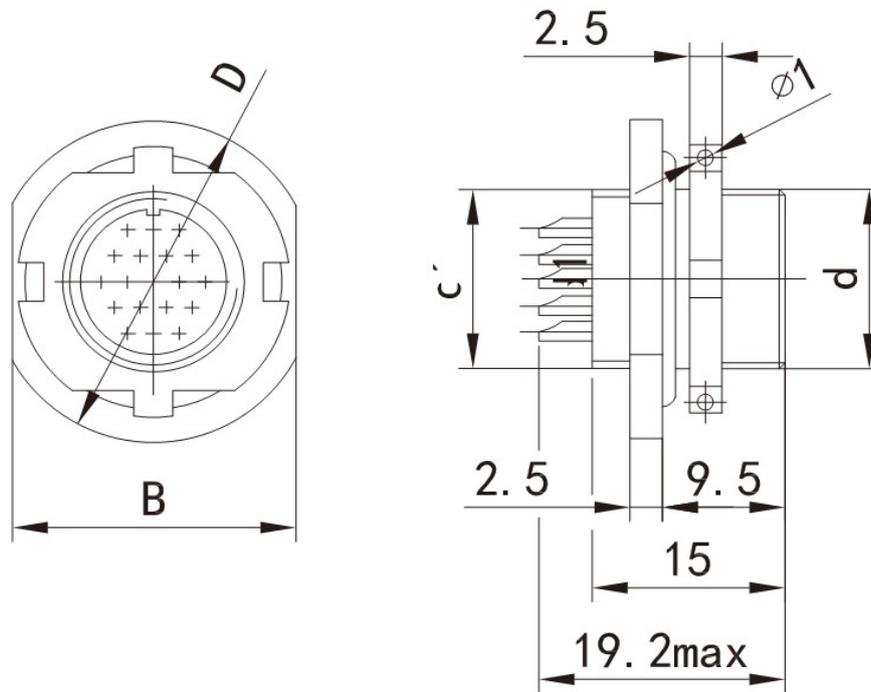
Dimensions

Receptacles, PPC3 type (solder cup)



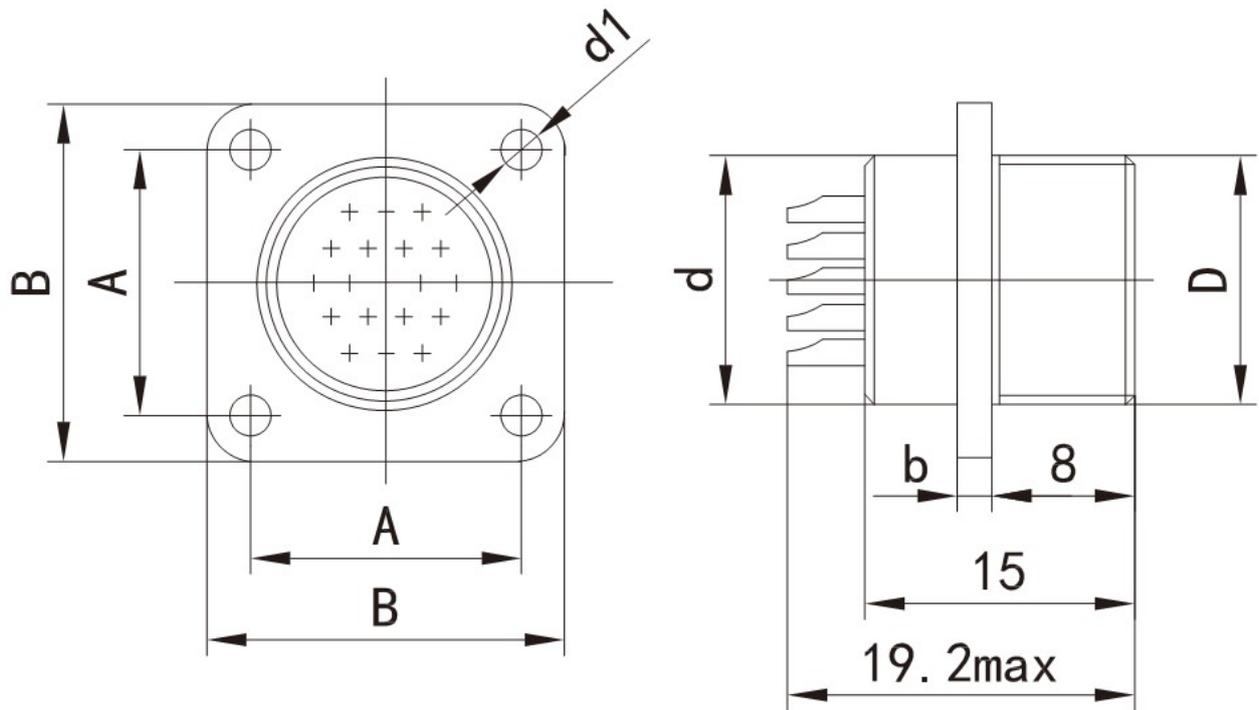
Shell size	d	D
10	M10x0.75	17,4
12	M12x0.75	19,4
14 standard flange	M14x0.75	25.0
14 reduced flange	M14x0.75	21.4
18 standard flange	M18x1.0	29.0
18 reduced flange	M18x1.0	25.4
22	M22x1.0	33.0
27	M27x1.0	38.0

Receptacles, PPC4 type (solder cup)



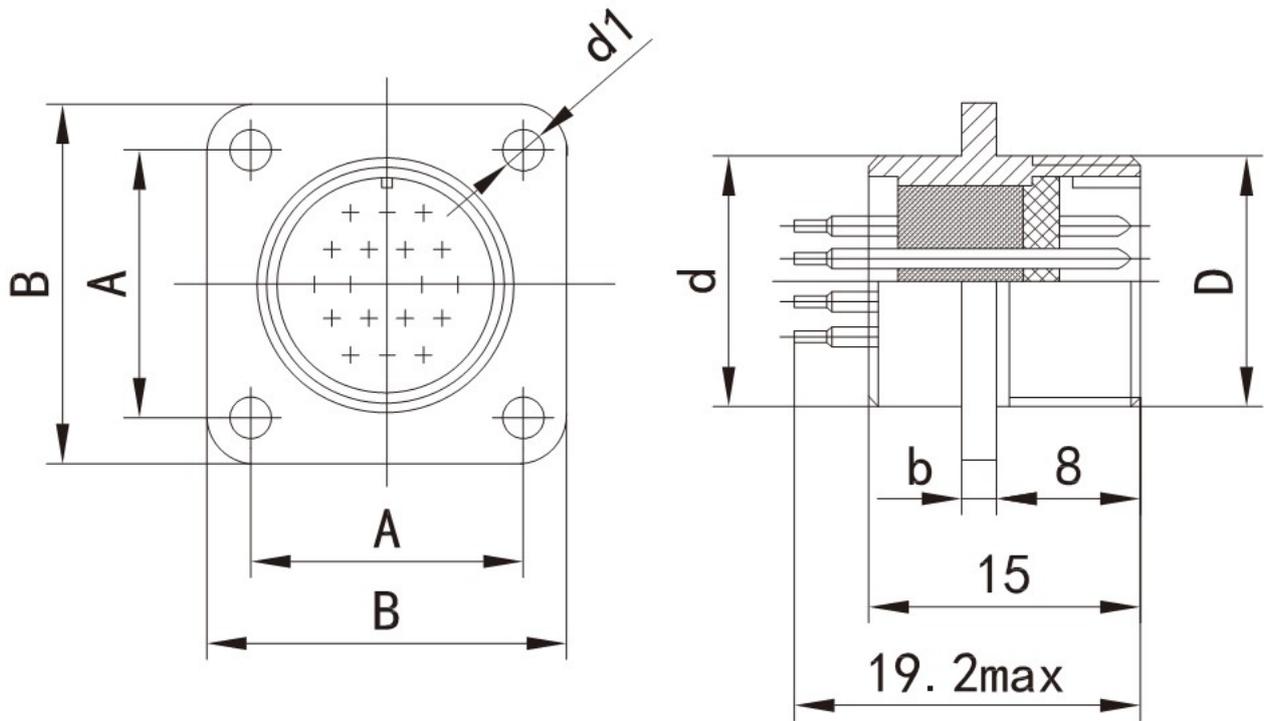
Shell size	d	d_2	D	B
14	M14x0.75	M14x0.75	25	22
18	M18x1.0	M18x0.75	29	26
22	M22x1.0	M22x0.75	33	30
27	M27x1.0	M27x0.75	38	35

Receptacles, PPC5 type (solder cup)



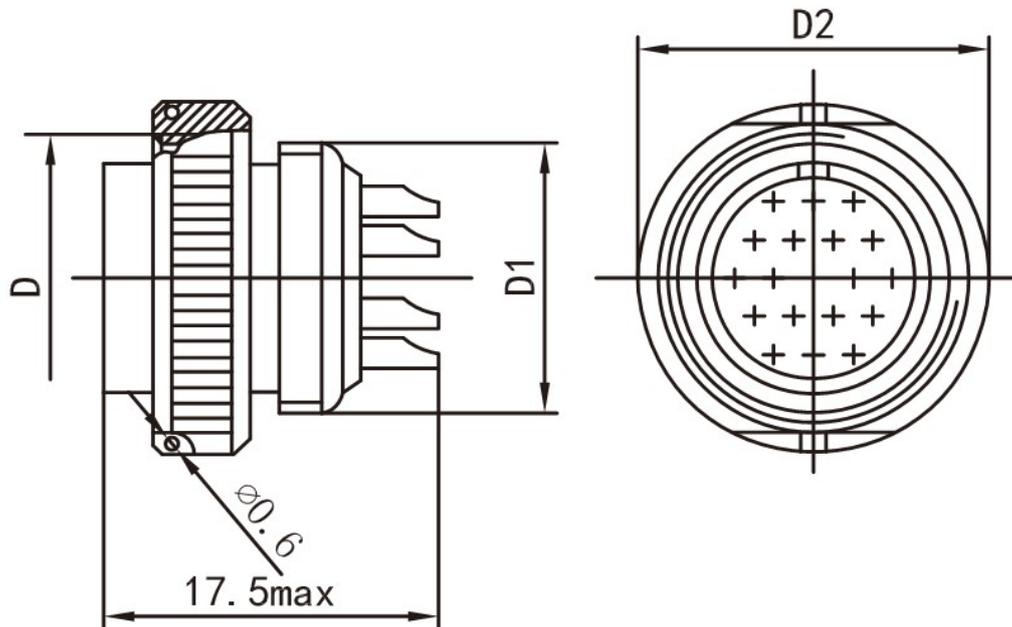
Shell size	D	d	d ₁	A	B	b
14	M14x0.75	14	2.2	15	20	1.8
18	M18x1.0	18	2.2	18	24	2
22	M22x1.0	22	2.7	21.5	28	2
27	M27x1.0	27	3.2	26	33	2

Receptacles, PPC5P type (PC Tail)



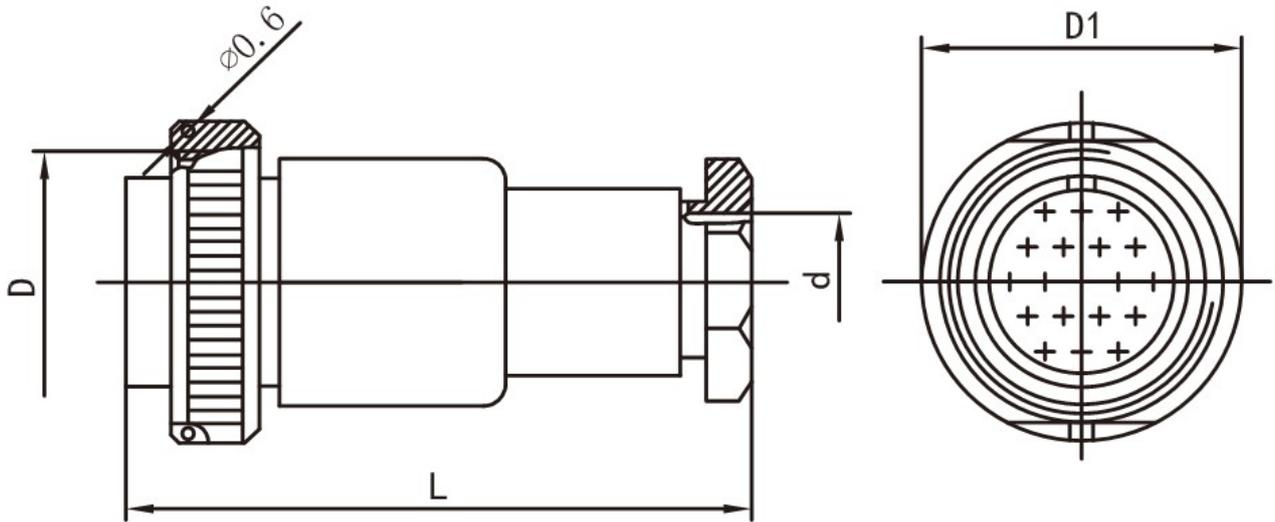
Shell size	D	d	d ₁	A	B	b
14	M14x0.75	14	2.2	15	20	1.8
18	M18x1.0	18	2.2	18	24	2
22	M22x1.0	22	2.7	21.5	28	2
27	M27x1.0	27	3.2	26	33	2

Plugs, PPC3 type (without backshell)



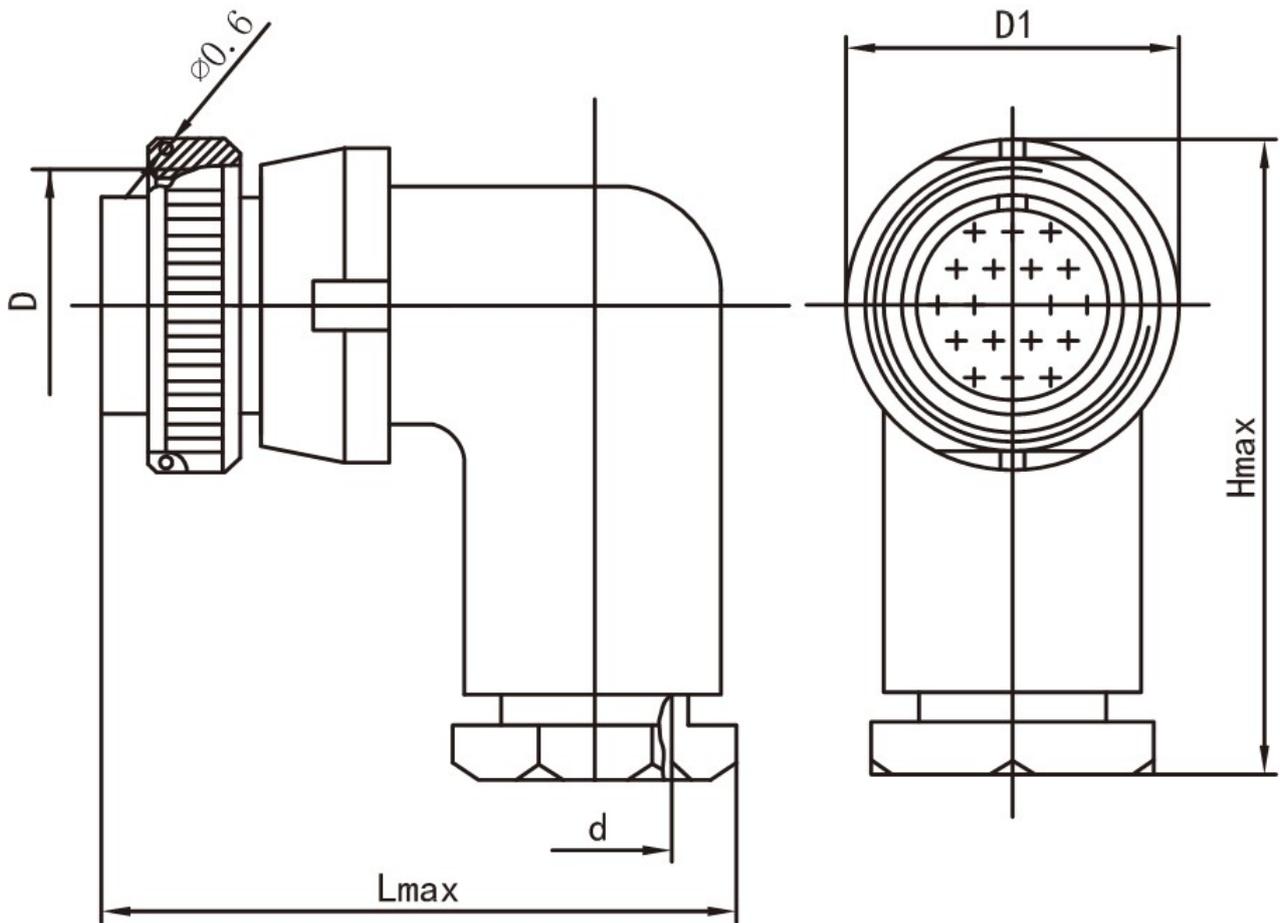
Shell size	D	D1	D2
14	M14x0.75	M14x0.75	18
18	M18x1.0	M18x0.75	22.5
22	M22x1.0	M22x0.75	26.5
27	M27x1.0	M27x0.75	31.5

Plugs, PPC3 type (with straight backshell)



Shell size	D1	D	d	L, max
14	18	M14x0.75	9	40
18	22.5	M18x1.0	11	42
22	26.5	M22x1.0	13	44
27	31.5	M27x1.0	16	48

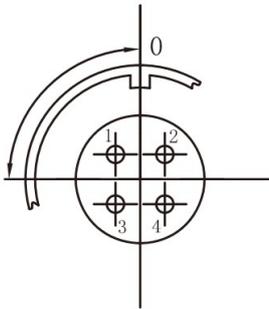
Plugs, PPC3 type (with elbow backshell)



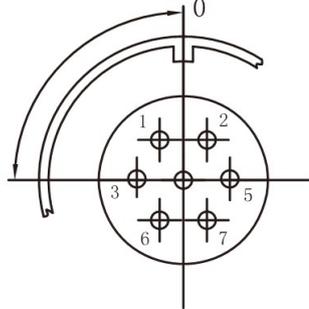
Shell size	D1	D	d	L, max	H, max
14	18	M14x0.75	9	40	36
18	22.5	M18x1.0	11	42	40
22	26.5	M22x1.0	13	44	44.5
27	31.5	M27x1.0	16	48	51.5

Orientation keys

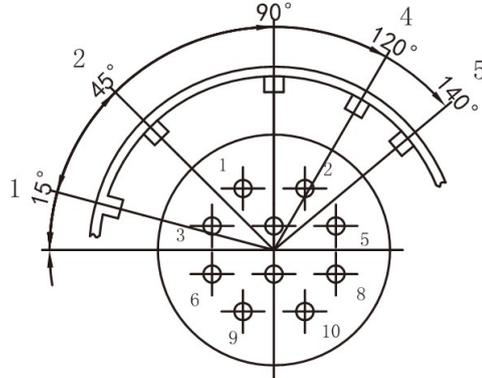
4 contacts



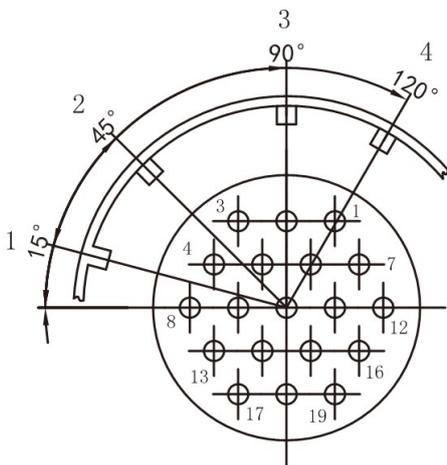
7 contacts



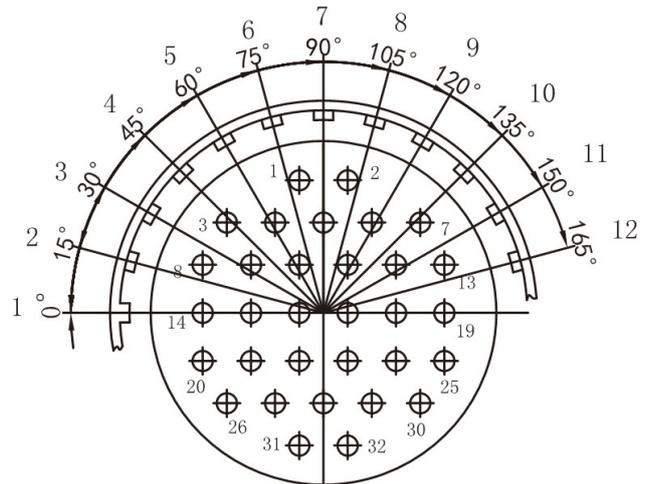
10 contacts



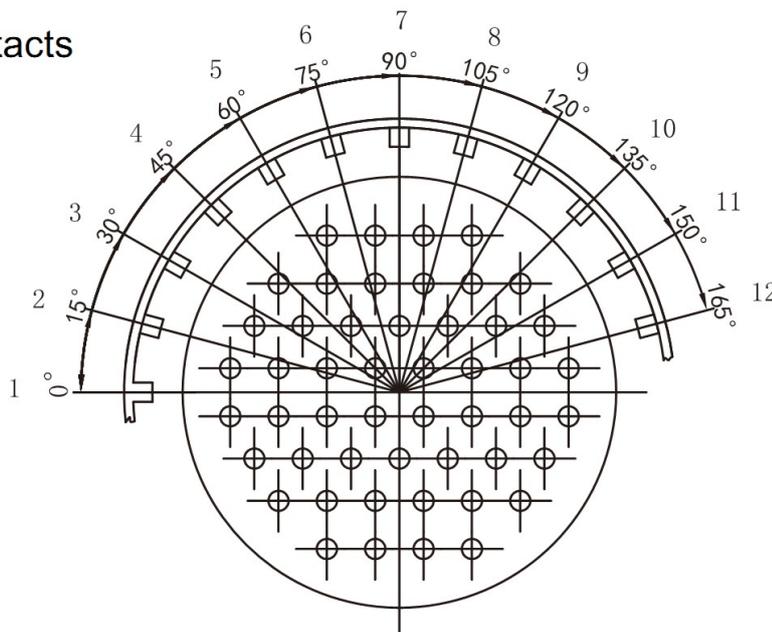
19 contacts



32 contacts

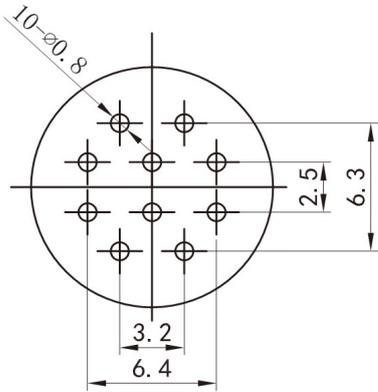


50 contacts

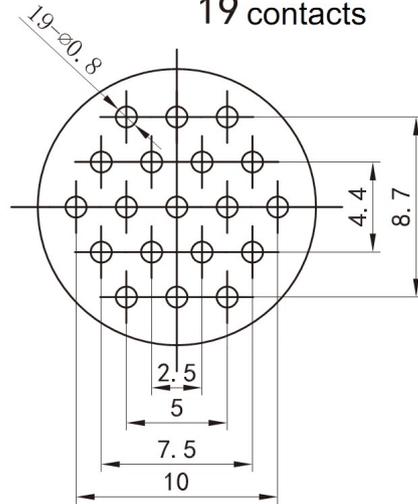


Coordinates for straight PC tail terminations

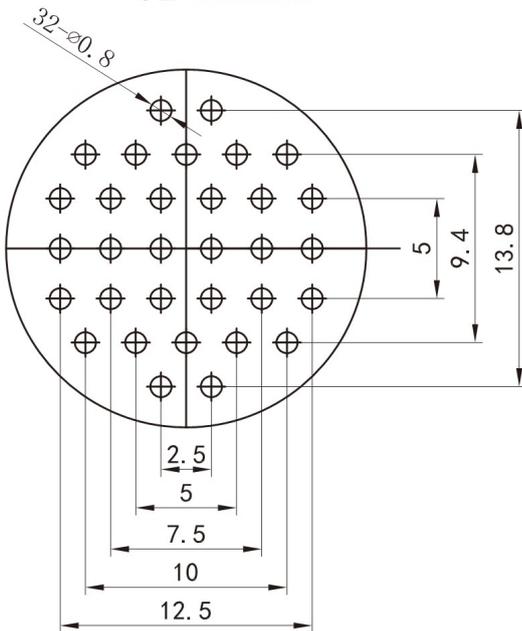
10 contacts



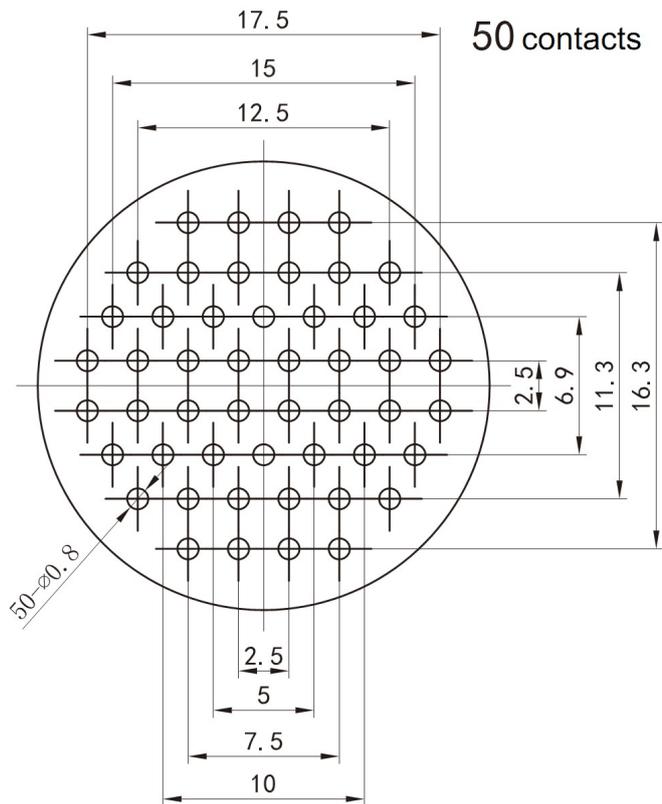
19 contacts



32 contacts



50 contacts



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