

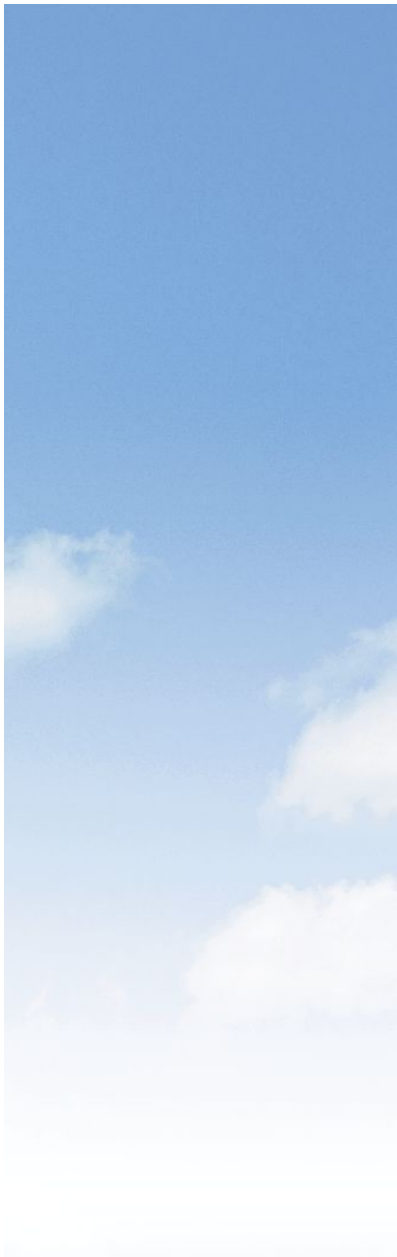


CIRCULAR ELECTRICAL CONNECTOR

P.ZP.PR, ZH23, ZH28, 2PX, OHS



上海华通电气有限公司
SHANGHAI HUATONG ELECTRIC CO., LTD.



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K-series air-sealed electrical connector

GJB598A-1996(MIL-C-26482G、HB6-77-83)

Product profile

This series of products meets the requirements of GJB598-199 (American standard MIL-C-26482G, line standard HB6-77-83), and can be used with ZH8525 series with Housing spec and hole group plugs, K-type contacts are wound and K-F type contacts are welded, which is suitable for rapid and reliable connection and disconnection of aircraft electrical equipment and radio devices.



Technical function

Ambient temperature: $-55^{\circ}\text{C}\sim 125^{\circ}\text{C}$

Humidity: 50°C , 92%~95%

Atmospheric pressure: 2.2KPa

Vibration: 10~2000Hz, 147m/s^2

Shock: Acceleration reaches 490m/s^2

Constant acceleration: 147m/s^2

Salt spray: accord with GJB150

voltage rating: 500V(AC-50Hz)

Current rating: 7.5A

Contact resistance: $\leq 0.005\Omega$

Insulation resistance: $\geq 1000\text{M}\Omega$ (Ordinary temperature) $\geq 100\text{M}\Omega$ (damp heat)

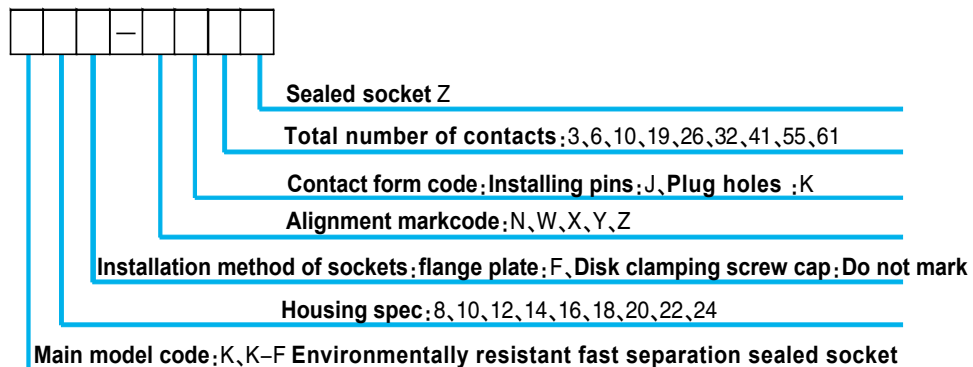
Withstanding voltage: 1500V 50Hz(Ordinary temperature) 1125V 50Hz(damp heat)

Tightness: Pressure difference between internal and external media is 101KPa, Air leakage rate $< 460\text{Pa/s}$

Mechanical durability: mating cycles 500 times

Enterprise standard: Q/3E 59-89

Model mark



K-series air-sealed electrical connector

GJB598A-1996(MIL-C-26482G、HB6-77-83)

example : K 20 F—W J 41 Z

Sealed socket Z

Total number of contacts:41

Installing pins:

Alignment mark:N、W、X、Y、Z

Flandish installation

Housing spec:20

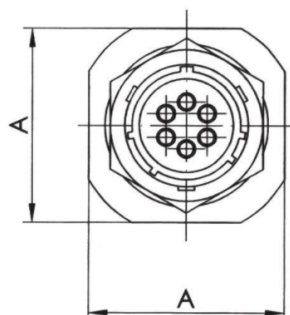
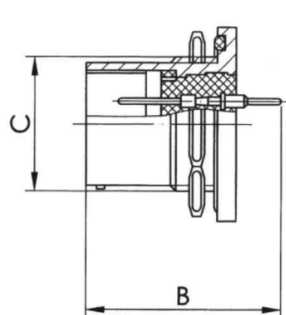
Environmentally resistant fast separation sealed socket

note :Arrangement of insulators see the ZH8525 series of insulator hole position arrangement

Alignment mark (See the ZH8525 series shell bond position table)

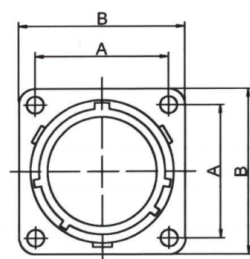
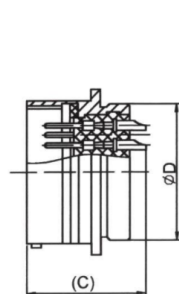
connector Outline and Installation Dimension

⊙ K-type winding type socket



Housing spec	A	B	C
10	26.73	29.43	0.6875-24NEF-2A
12	31.75	29.43	0.875-20UNEF-2A
14	34.94	29.43	1-20UNEF-2A
16	38.10	29.43	1.125-18NEF-2A
18	41.28	29.43	1.25-18NEF-2A
22	49.22	29.43	1.500-18NEF-2A
24	50	29.43	1.625-18NEF-2A

⊙ K-F Type welding socket



Housing spec	A	B	C	D
8	15.09	20.55	25.60	10.73
10	18.26	23.75	25.60	13.73
12	20.62	26.10	25.60	16.88
14	23.01	28.45	25.60	19.83
20	29.36	36.45	26	29.33
24	34.92	42.85	26	35.68

note:K-type and K-F-type sockets can be installed according to user requirements.

P.ZP.PR Series electrical connectors

Ordinary circular electric connector is a standard electric connector, with sealed and non-sealed type. The connector is generally composed of a part fixed to the instrument (socket) and a part (plug) fixed to the cable, connected with the help of the connecting nut.



Localized model: P(ЩП), ZP(ЩП), PR—B(2PTT)

Technical function

- ⊙ **Ambient temperature:** -60°C~+50°C(ЩП, ЩП)
-60°C~+150°C(2PT-A-T)
- ⊙ **Vibration:** 10g(ЩП, ЩП, 5~2000Hz)
10g(2PTA, 10~200Hz; 2PTT, 10~1000Hz;)
- ⊙ **Shock:** Once 500g, Many times 35g(ЩП)
- ⊙ **working voltage:** ≤ 850V(ЩП, ЩП); ≤ 700V(2PT)

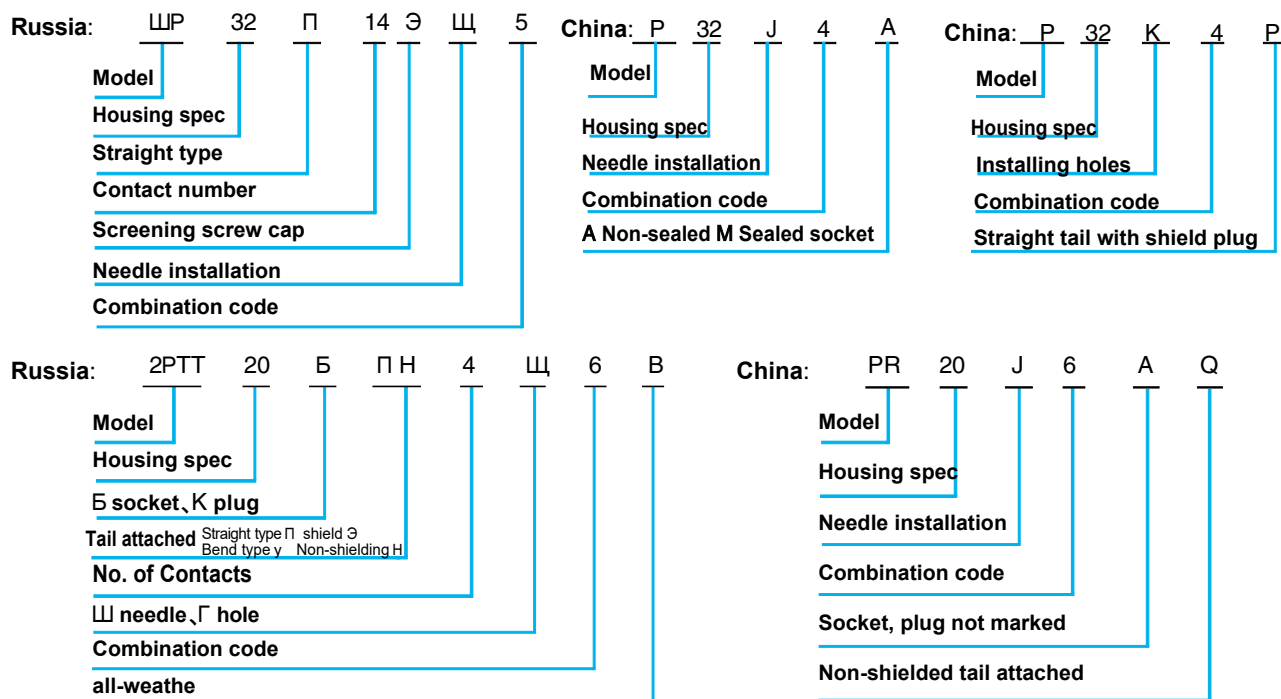
⊙ Current rating:	Ø1.5	Ø2.5	Ø3.5	Ø5.5	Ø9
	10A	25A	50A	100A	200A

⊙ Contact resistance:	Ø1.5	Ø2.5	Ø3.5	Ø5.5	Ø9
	≤2.5mΩ	≤1mΩ	≤0.5mΩ	≤0.3mΩ	≤0.15mΩ

- ⊙ **working life:** times mating cycles, 1000 hours
- ⊙ **Warranty period:** 7 years
- ⊙ **technical conditions:** ЩП ЩП—ГЕО.364.107TY
ЩПГ ЩПГ—ГЕО.364.108TY
2PTT—ГЕО.364.120TY
- ⊙ **technical conditions:** Q/3E 20007-2003

Marker instructions

Tag Example:



P.ZP.PR Series electrical connectors

sequence number	Russia Code meaning	code	Chinese Code meaning	code
1	Model Non-sealed,(Dedicated) seal,(Dedicated) Withstanding damp heat	ШП(СШП) ШПГ(СШПГ) 2PT(T)	Model ordinary(Dedicated) seal heat-resisting Sealed through the wall	P(ZP) P-M(ZP-M) PR(PRB) P-C
2	Shell diameter(mm)	12、16、20、28 32、36、40、48 55、60	Shell diameter(mm)	16、20、28、32 36、40、48、55 60、63
3	Straight Bend type Straight tail attached socket(Fixed end) Curved tail accessory socket(Fixed end) Straight tail attached plug(Free end) Curved tail attachment plug(Free end)	П	Pin insertion	J
		У	Jack	K
		ПК	Combination number of contacts with different diameters	Number codes are shown in the table
		УК	Unsealed socket seal Sealed through the wall plug	A M C Do not mark
4	No. of Contacts	1-48	Straight tail attached shield Non-shielding Curved tail attached shield Non-shielding	P Q R S
5	Connected cable status shield Non-shielding	Э Н		
6	socket needle(hole)(fixed end) plug hole(needle)(free end)	Ш(Г) Г(Ш)		
7	Combination number of contacts with different diameters	1-42		
8	Left plug	Л	Left plug	U

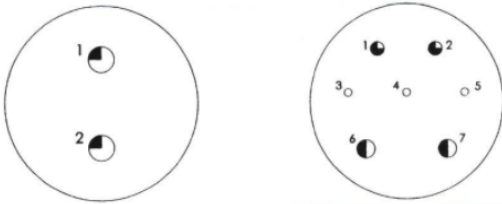
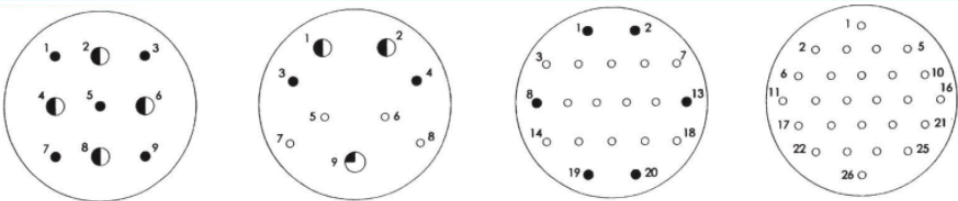
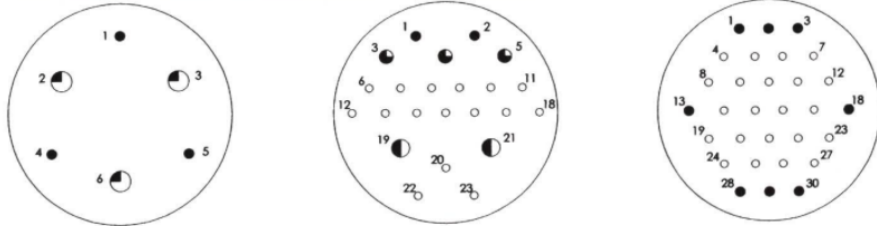
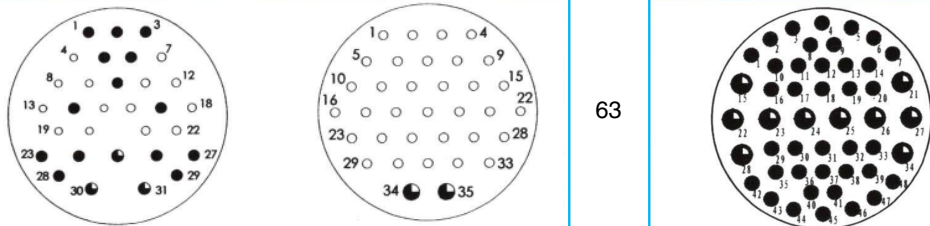
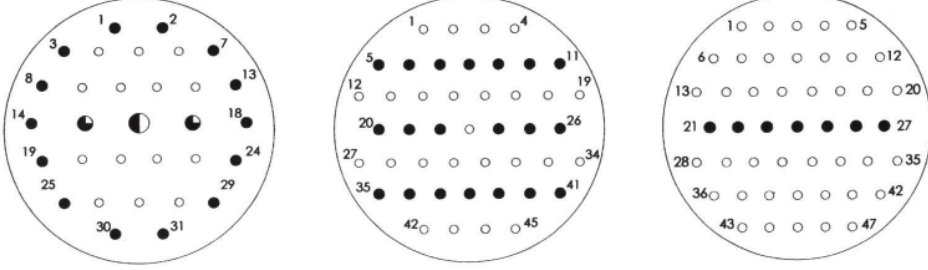
note:fixed end—Installed on the instrument free end—Installed on the instrument and connected to the cable

P.ZP.PR Series electrical connectors

Contact arrangement(From the mating surface of the socket insulator)

Housing spec		Housing spec	1-1	2-4	P	Contact number- Combination code				
	1-2		1-3	2-5	ШП					
	1-1		1-2	2-3	2PTT					
12		16		PR 	P 	Ø1.5 	Ø2.5 	Ø3.5 	Ø5.5 	Ø9
20	2-2	3-3	3-4	4-6	4-7	5-9	5-10			
	2-6	3-7	3-6	4-8	4-4	5-10	5-7			
	2-4	3-5	3-38	4-6	4-39	5-40	5-7			
28	1-1	2-5	4-2	7-4	6-3					
	1-4	2-7	4-5	7-9	7-7	6-4				
	1-8	2-9	4-10	7-11	7-41					
32	1-1	8-2		8-7						
	1-5	4-14	8-3	8-2						
	1-12	4-13	8-14	8-42						
	10-11	12-12	12-3	14-4	7-6					
	10-1	12-3	12-1	14-5						
	10-15	12-16								
36	4-1	5-2	7-3	15-6	10-4	15-7				
	4-13	5-11	7-1	15-14	10-1	15-12				
	4-17	5-18	7-19	15-20						
40	3-1	9-2	14-3	16-8	15-6					
	3-9	9-9	14-2	16-2	15-2					
	3-21	14-22		16-23						

P.ZP.PR Series electrical connectors

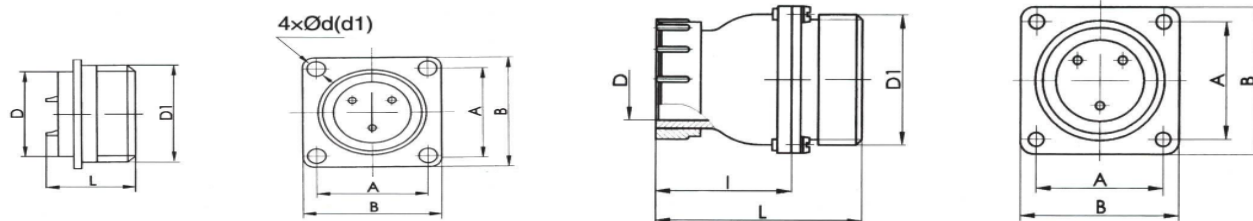
Housing spec	2-1		7-2		P	Contact number- Combination code
	2-9		7-2		WIP	
	2-24		7-25		2PTT	
48					Ø1.5 Ø2.5 Ø3.5 Ø5.5 Ø9 	
	9-4		9-3		20-5	
	9-7		9-1		20-1	
	9-27		9-26		20-28	
					26-6	
				26-2		
				26-29		
						
55	6-1		23-2		30-3	
	6-6		23-1		30-1	
	6-30		23-31		30-32	
						
	31-6		35-8		Housing spec	48-1
31-3		35-3				
31-33		35-34				
				63		
60	31-1		45-3		47-5	
	31-1		45-2		47-2	
	31-35		45-36		47-37	
						

P.ZP.PR Series electrical connectors

Outline, installation dimensions (mm)

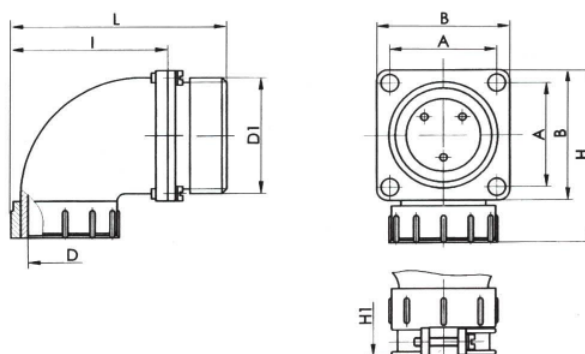
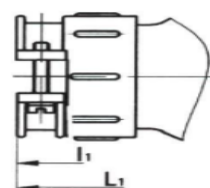
☉ socket

ЩР, СЩР, 2PT Socket without tail attachment



ЩР, СЩР, 2PT Socket with straight tail attachment

note: d is the size of the installation hole for the unsealed square plate
d1 is the sealing square plate mounting hole size

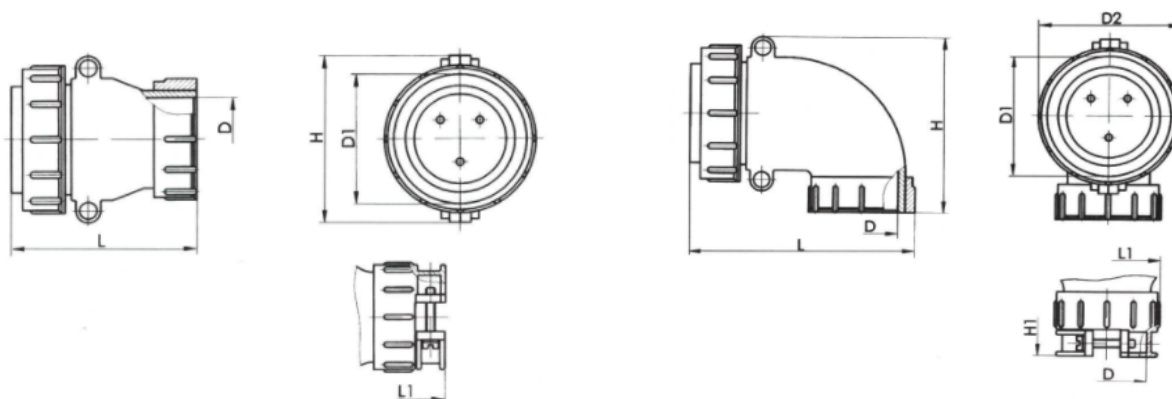


ЩР, СЩР, 2PT Socket with curved tail attachment

☉ plug

With straight tail attached plug

With curved tail attached plug



P.ZP.PR Series electrical connectors

Size of socket without tail attachment

Model	size						
	D	D1	A	B	L	d	d1
WJP 2PT-A 2PTT	12	M16×1.5	16±0.1	22	39	3.2	3.2
WJP 2PT-A 2PTT	16	M20×1.5	19±0.1	25	40	3.2	3.2
WJP WJPG CWP CWPG 2PT-A 2PTT	20	M24×1.5	22±0.1	30	38	3.2	4.5
				32	41		
				30	38		
WJP WJPG CWP CWPG 2PT-A 2PTT	28	M33×1.5	30±0.2	38	42	3.5	4.5
				40	43 68		
				38	42		
WJP WJPG CWPG 2PT-A 2PTT	32	M36×1.5	32±0.2	40	42	3.5	4.5
				44	42		
				40	42		
WJP WJPG CWP 2PT-A 2PTT	36	M39×1.5	34±0.2	42	42	3.5	4.5
				46	43		
				42	42		
WJP WJPG 2PT-A 2PTT	40	M45×1.5	40±0.2	48	42	3.5	4.5
				52	43		
				48	42		
WJP WJPG CWP、CWPG 2PT-A 2PTT	48	M52×1.5	48±0.2	58	42	4.5	4.5
				60	43		
				58	42		
WJP WJPG CWP 2PT-A 2PTT	55	M60×1.5	52±0.2	64	42	4.5	4.5
				68	43		
				64	42		
WJP WJPG CWP 2PT-A 2PTT	60	M64×1.5	54±0.2	68	42	4.5	4.5
				72	41		
				68	42		
P	63	M68×1.5	58±0.2	70	40	4.5	4.5

P.ZP.PR Series electrical connectors

Size of socket with straight tail attachment

Model		D	D1	A	B	L	L1	I	I1
ШР 2PT-A 2PTT	12	8	M16×1.5	16	22	52	64	28	40
						51	63		
ШР	16	11	M20×1.5	19	25	52	62	28	38
2PT-A 2PTT						51	61		
ШРГ					26	55	65		
ШР	20	25	M24×1.5	22	30	54	65	32	43
2PT-A ШРГ 2PTT					32	58	69		
ШР					38	59	73		
2PT-A 2PTT ШРГ	40	63	77						
ШР	40	64	78	40	54				
2PT-A	32	25	M36×1.5			32	40	67	81
2PTT ШРГ									
ШР				36	29				
2PT-A	42	65	79						
2PTT	46	69	83						
ШР 2PT-A 2PTT ШРГ	40	32	M45×1.5	40	48	65	79	42	56
ШРГ					52	69	83		
ШР 2PT-A 2PTT ШРГ	48	36	M52×1.5	48	58	67	81	44	58
ШРГ					60	71	85		
ШР	55	46	M60×1.5	52	64	67	81	44	58
2PT-A 2PTT					68	71	85		
ШРГ									
ШР	60	50	M64×1.5	54	68	65	79	42	56
2PT-A 2PTT					72	69	83		
ШРГ									
P	63	50	M68×1.5	58	70	70	84	47	61

P.ZP.PR Series electrical connectors

☉ Size of the socket with a curved tail attachment

Model		D	D1	A	B	H	H1	L	I
ШР 2PT-A 2PTT	20	18	M24×1.5	22	30	43	54	61	38.5
ШР 2PT-A 2PTT	32	25	M36×1.5	32	40	50	70	75	52
ШР 2PT-A	60	50	M64×1.5	54	68	84	98	106	83

☉ Size of socket with straight tail attachment

Model		D	D1	H	L	L1
ШР 2PT-A 2PTT	12	8	M16×1.5	24.5	50	62
ШР 2PT-A 2PTT	16	11	M20×1.5	28.5	50	60
ШР СШР 2PT-A 2PTT	20	18	M24×1.5	36	53	64
ШР СШР 2PT-A 2PTT	28	25	M33×1.5	48	56	70
ШР 2PT-A 2PTT	32	25	M36×1.5	52	58	72
ШР 2PT-A 2PTT	36	29	M39×1.5	54	62	76
ШР СШР 2PT-A 2PTT	40	32	M45×1.5	60	64	78
ШР СШР 2PT-A 2PTT	48	36	M52×1.5	68	66	80
ШР СШР 2PT-A 2PTT	55	46	M60×1.5	74	66	80
ШР СШР 2PT-A 2PTT	60	50	M64×1.5	80	65 64	79 78
P	63	50	M68×1.5	83	64	78

P.ZP.PR Series electrical connectors

⊙ Plug size with curved tail attachment

Model		D	D1	D2	H	L1	L	D3
WJP 2PT-A 2PTT	12	8	M16×1.5	21.5	39	47	51	5
WJP 2PT-A 2PTT	16	11	M20×1.5	26	40	50	56	7
WJP CWP 2PT-A 2PTT	20	18	M24×1.5	30	48	59	64	14
WJP CWP 2PT-A 2PTT	28	25	M33×1.5	39	62	76	73	21
WJP CWP 2PT-A 2PTT	32	25	M36×1.5	42	66	80	73	21
WJP CWP 2PT-A 2PTT	36	29	M39×1.5	45	67	81	76	23
WJP 2PT-A 2PTT	40	32	M45×1.5	51	72	86	80	24
WJP CWP 2PT-A 2PTT	48	36	M52×1.5	59	81	95	90	32
WJP CWP 2PT-A 2PTT	55	46	M60×1.5	67	88	102	98	40
WJP CWP 2PT-A 2PTT	60	50	M64×1.5	72	94	108	103	48
P	63	50	M68×1.5	76	96	110	105	48

PRG High temperature electrical connector

The 4 PT type electrical connector is used for electrical connections in DC AC circuits, with its plug and socket equipped with shielded and unshielded tail nuts or without tail nuts.

Localized models:PRG



Technical function

- ⊙ Ambient temperature: -60°C~+400°C
- ⊙ vibrate: 1~2000Hz 10g
- ⊙ Shock: Once 300g, Many times 150g
- ⊙ Contact resistance: 1.0mΩ
- ⊙ Insulation resistance: ≤ 1000MΩ (normal conditions)
- ⊙ working voltage: ≥ 350V
- ⊙ Mechanical and Work durability: mating cycles 250 times at least 100 hours
- ⊙ Warranty period: 12 years
- ⊙ Technical Parameters: 3E0.363.121TY
- ⊙ Technical Parameters: 3E0 204 065JT 3E0 204 063JT

Contact characteristics

Housing spec- No. of Contacts- Combination number	current A		mating cycles (kg)
	Single contact current	Total connector current	
20-2-6	10	20	4.0
28-4-8	10	40	3.5
28-7-9	10	70	14.5
40-16-4	10	160	36.0
48-26-3	9	234	55.0
60-47-3	7	329	100.0

Marker instructions

Russia:	4 P T	20	Б	ПН	2	Ш	6
	4 P T	20	K	ПЭ	2	Г	6
Model							
Housing spec							
Б socket K cable head							
ПН Straight unshielded tail nut							
ПЭ Straight shielded tail nut							
No. of Contacts							
Ш-Binding needle Г-Installing holes							
Combination code							

China:	PRG	20	J	2	A	Q
	PRG	20	K	2		P
Model						
Housing spec						
needle J hole K						
No. of Contacts						
A-socket plug (Do not mark)						
P-Direct shielding Q-Direct unshielded						
R-Curved shieldin S-Curved non-shielded						

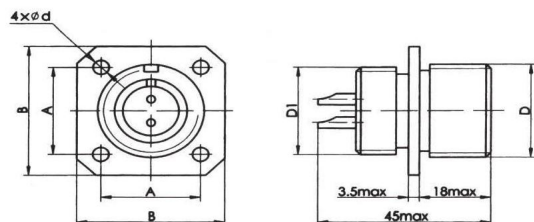
Contact arrangement (Housing spec – No. of Contacts – Combination code)

Housing spec	20	28	28	40	48	60
Contact number	2	4	7	16	26	47
Combination code	6	8	9	4	3	3
Contact parts arrangement						

PRG High temperature electrical connectors

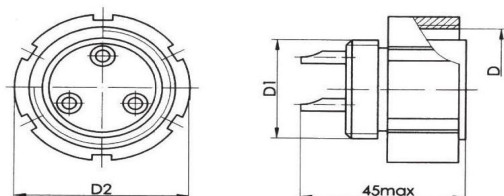
Outline and Installation Dimension

Socket without tail nut(Б)



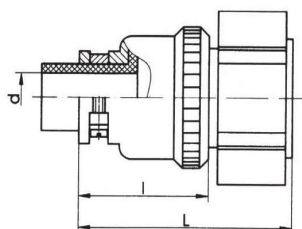
Combination number	D	D1	A	B	d	weight (g)
20-2-6	M24×1.5	M20×1	22	30	3.4	62
28-4-8	M33×1.5	M27×1	30	38		94
28-7-9						109
40-16-4	M45×1.5	M39×1	40	48		161
48-26-3	M52×1.5	M48×1	48	58	4.5	221
60-47-3	M64×1.5	M60×1	54	63		315

Cable plug without tail nut(К)



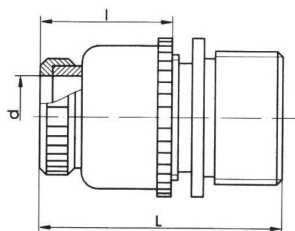
Combination number	D	D1	D2	weight(g)
20-2-6	M24×1.5	M20×1	29	60
28-4-8	M33×1.5	M27×1	38	110
28-7-9				120
40-16-4	M45×1.5	M39×1	50	200
48-26-3	M52×1.5	M48×1	57	280
60-47-3	M64×1.5	M60×1	69	450

Straight unshielded tail nut(ПН)



Tail nut number	d	i	L	weight(g)
1	12	40	59	60
2	18	43	62	85
3	27	50	68	109
4	32	50	68	162
5	42	60	79	185

Straight shielded tail nut(ПЭ)



Tail nut number	d	i	L	weight(g)
6	9	42	61.5	43
7	12	47	66.5	60
8	21	59	78.5	125
9	26	59	78.5	150
10	34	59	78.5	195

ZH23 Series of environmental-resistant bayonet electrical connectors

CHL23 series electrical connectors, It has the characteristics of environmental resistance, five key positioning to prevent insertion errors, and quick connection of the bayonet. The contact parts are crimped and then released, used in low-frequency AC/DC circuits.

Localization Model: ZH23



Technical Parameters

- ⊙ Ambient temperature: $-60^{\circ}\text{C} \sim +200^{\circ}\text{C}$ (highest 200°C)
- ⊙ Vibration: $40\text{g}(1-5000\text{Hz})$
- ⊙ Shock: $500\text{g}(\text{Once}); 150\text{g}(\text{Many times});$

⊙ working volta	grade	working voltage(V)	Testing voltage(V)
	A	700	2100
	B	500	1850
	C	400	1600

⊙ contact current:	Ø1.0	Ø1.5	Ø2.0
	11A	20A	35A

⊙ Contact resistance:	Ø1.0	Ø1.5	Ø2.0
	$\leq 7.4\text{m}\Omega$	$\leq 2.5\text{m}\Omega$	$\leq 1.6\text{m}\Omega$

- ⊙ Technical Parameters : ГЕО.364.241ТУ
- ⊙ technical specification : Q/3E 20005-2003
- ⊙ Salt spray : 96h
- ⊙ Humidity : $30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 92%~98%
- ⊙ Insulation resistance : $\geq 5000\text{M}\Omega$
- ⊙ Mechanical and Work durability: mating cycles 500 times

Mark Description

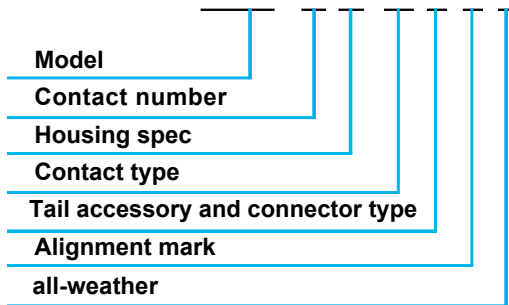
Serial Number	Code meaning	Russian code	Chinese (117)code
1	Model	CHL23	ZH23
2	Total number of contacts	3, 4, 7, 10, 19, 24, 28, 32, 41, 43, 45, 55, 61	3, 4, 7, 10, 19, 24, 28, 32, 41, 43, 45, 55, 61
3	standard Housing spec(mm)	14, 18, 22, 24, 27, 30, 33, 36, 39	14, 18, 22, 24, 27, 30, 33, 36, 39
4	Contact type	B(Put in the needle) P(Fit into the hole)	B(Put in the needle) P(Fit into the hole)
5	Tail accessory and connector type code	1-Socket with simplified tail accessories 2-Socket with straight clamp type tail attachment 4-Socket with curved clamp type tail attachment 6-Plug with straight clip type tail attachment 8-Plug with curved clamp tail attachment 11-Plug with simplified tail attachment 12-Socket with 09 type thermoplastic sleeve tail attachment 13-Plug with 09 type thermoplastic sleeve tail attachment 15-Socket with 05 type shielded straight tail attachment(memory ring) 16-Plug with 05 type shielded straight tail attachment(memory ring)	17-Socket with 06 type shielded curved tail attachment (memory ring) 18-Plug with 06 type shielded bent tail attachment (memory ring) 19-Socket with 07 type shielded simplified tail attachment 20-Plug with 07 type shielded simplified tail attachment 21-Socket with 08 type shielded straight clamp wire tail attachment 22-Plug with 08 type shielded straight clamp wire tail attachment 25-Socket with 10 type shielded curved tail attachment 26-Plug with 10 type shielded bent tail attachment 27-Socket with 11 type shielded bent clamp wire tail attachment 28-Plug with 11 type shielded bent clamp wire tail attachment
6	Alignment mark	unmarked—Standard key position a, σ, B, r	unmarked—Standard key position a, b, c, d
7	climate condition—all-weather	B	

ZH23 Series Environmental Resistant Bayonet Electrical Connector

example:

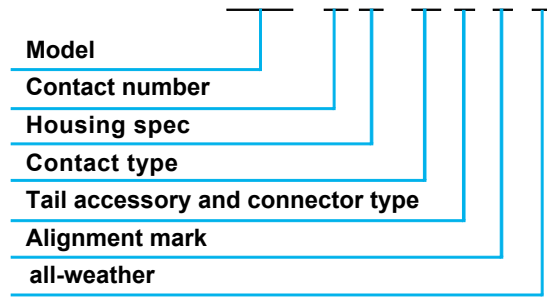
Russia:

CHL23 -3/14 B -2 -σ- B seat (Needle installation)
CHL23 -3/14 P -6 -a- B plug (Installing holes)



China:

ZH2 - 3/ 14 B - 2 - b - B seat (Needle installation)
ZH23 - 3/ 14 P - 6 -a- B plug (Installing holes)



Tail attachment Marker instructions (Tail accessories can be ordered separately)

Main model code	ZH23	N	-05	-33
Surface Treatment N—Indicates that the shell is nickel plated J—Indicates that the shell is cadmium plated				
Tail attachment type 05—Shielded straight tail accessory (With memory ring) 06—Shielded curved tail accessory (With memory ring) 07—Shield tail accessories (Simplified form) 08—Shielded straight clamp wire tail accessory 09—Thermoplastic tube-type tail accessories 10—Shield the curved tail accessories 11—Shield the curved clip tail accessories				
Housing spec 14、18、22、24、27、30、33、36、39				

ZH23 Series Environmental Resistant Bayonet Electrical Connector

Arrangement of hole groups in insulation components (From the direction of the contact end of the pin)

(See CH128 insulator Alignment mark and contact parts distribution for details)

	3/14	4/14	7/18	10/18	Contact diameter	sign
14 Housing spec					1.0mm	○
					1.5mm	◐
					2.0mm	◑
22 Housing spec						
27 Housing spec						
30 Housing spec						
36 Housing spec						

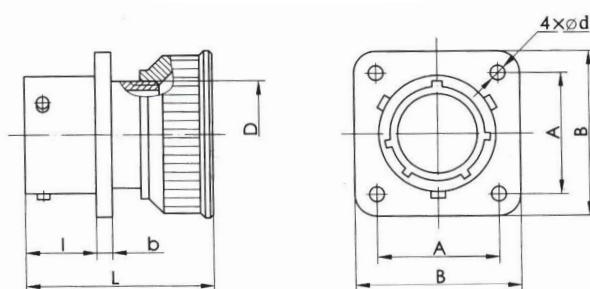
ZH23 Series Environmental Resistant Bayonet Electrical Connector

Key position angle

Model	a、 (a)	σ、 (b)	B、 (c)	Γ (d)	unmarked	Model	a、 (a)	σ、 (b)	B、 (c)	Γ (d)	unmarked
3/14	160				0	28/27	45	150	195		0
4/14		135			0	32/27	45	135		270	0
7/18	90				0	24/30	90	135	200		0
10/18		70			0	41/30	45	90			0
7/22	80	170	225		0	32/33	90	120			0
10/22		100	195		0	55/33	75	90		165	0
19/22	30		225		0	43/36	90	135	200	250	0
19/24	30	120	245		0	61/36	90	160	190		0
19/27	30	195			0	45/39	90	180	270	315	0

External installation dimensions

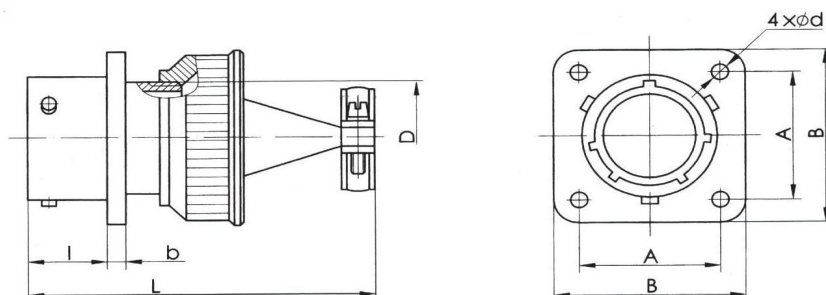
① 1—Socket with simplified tail accessories



Model	size mm						
	A	B	D	dmin	l	bmax	L
CHЦ23-4/14B(P)-1-B	16.5	21.7	14	2.2	11.3	1.4	32.5
CHЦ23-3/14B(P)-1-B							
CHЦ23-10/18B(P)-1-B	19.5	25.9	18.5	3.2			
CHЦ23-7/18B(P)-1-B							
CHЦ23-19/22B(P)-1-B	23	29.4	21.7				
CHЦ23-10/22B(P)-1-B							
CHЦ23-7/22B(P)-1-B	25	31.4	24.85				
CHЦ23-19/24B(P)-1-B							
CHЦ23-32/27B(P)-1-B	27	33.4	26.3				
CHЦ23-19/27B(P)-1-B							
CHЦ23-28/27B(P)-1-B	31	37.8	29.5				
CHЦ23-41/30B(P)-1-B							
CHЦ23-24/30B(P)-1-B	34	41.5	32.6		14.5		
CHЦ23-55/33B(P)-1-B							
CHЦ23-32/33B(P)-1-B	36.5	44.5	35.8	15.3	2.15		
CHЦ23-61/36B(P)-1-B							
CHЦ23-43/36B(P)-1-B	40	46.4	39				
CHЦ23-45/39B(P)-1-B							

ZH23 Series of environmental-resistant bayonet electrical connectors

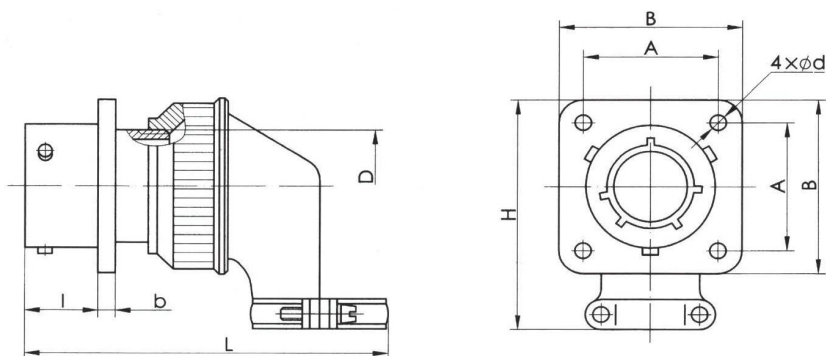
2- Socket with straight clamp type tail attachment



Model	size mm						
	A	B	D	dmin	l	bmax	L
CHЦ23-4/14B(P)-2-B	16.5	21.7	14	2.2	11.3	1.4	42
CHЦ23-3/14B(P)-2-B							
CHЦ23-10/18B(P)-2-B	19.5	25.9	18.5	3.2		1.8	48
CHЦ23-7/18B(P)-2-B							
CHЦ23-19/22B(P)-2-B	23	29.4	21.7				
CHЦ23-10/22B(P)-2-B							
CHЦ23-7/22B(P)-2-B	25	31.4	24.85				
CHЦ23-19/24B(P)-2-B							
CHЦ23-32/27B(P)-2-B	27	33.4	26.3				
CHЦ23-19/27B(P)-2-B							
CHЦ23-28/27B(P)-2-B	31	37.8	29.5				
CHЦ23-41/30B(P)-2-B							
CHЦ23-24/30B(P)-2-B	34	41.5	32.6	14.5	2.15	50	
CHЦ23-55/33B(P)-2-B							
CHЦ23-32/33B(P)-2-B	36.5	44.5	35.8	15.3			
CHЦ23-61/36B(P)-2-B							
CHЦ23-43/36B(P)-2-B	40	46.4	39				
CHЦ23-45/39B(P)-2-B							

ZH23 Series of environmental-resistant bayonet electrical connectors

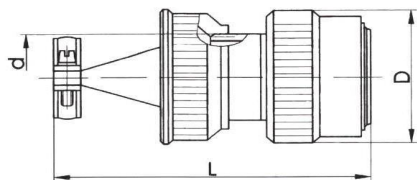
4- Socket with curved clamp type tail attachment



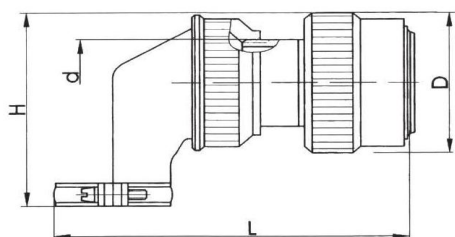
Model	size mm							
	A	B	D	dmin	l	bmax	H	L
CHЦ23-4/14B(P)-4-B	16.5	21.7	14	2.2	11.3	1.4	69	69
CHЦ23-3/14B(P)-4-B								
CHЦ23-10/18B(P)-4-B	19.5	25.9	18.5	3.2				
CHЦ23-7/18B(P)-4-B								
CHЦ23-19/22B(P)-4-B	23	29.4	21.7					
CHЦ23-10/22B(P)-4-B								
CHЦ23-7/22B(P)-4-B	25	31.4	24.85					
CHЦ23-19/24B(P)-4-B								
CHЦ23-32/27B(P)-4-B	27	33.4	26.3					
CHЦ23-19/27B(P)-4-B								
CHЦ23-28/27B(P)-4-B	31	37.8	29.5					
CHЦ23-41/30B(P)-4-B								
CHЦ23-24/30B(P)-4-B	34	41.5	32.6	14.5				
CHЦ23-55/33B(P)-4-B								
CHЦ23-32/33B(P)-4-B	36.5	44.5	35.8	15.3	2.15			
CHЦ23-61/36B(P)-4-B								
CHЦ23-43/36B(P)-4-B	40	46.4	39					
CHЦ23-45/39B(P)-4-B								

ZH23 Series of environmental-resistant bayonet electrical connectors

6-Plug with straight clip type tail attachment



8-Plug with curved clamp tail attachment

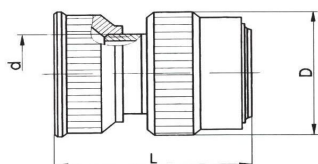


Model	size mm		
	Dmax	d	L
CHЦ23-4/14B(P)-6-B	22.6	14	50
CHЦ23-3/14B(P)-6-B			
CHЦ23-10/18B(P)-6-B			
CHЦ23-7/18B(P)-6-B	26	18.5	
CHЦ23-19/22B(P)-6-B			
CHЦ23-10/22B(P)-6-B	29.7	21.7	
CHЦ23-7/22B(P)-6-B			
CHЦ23-19/24B(P)-6-B	32.9	24.85	
CHЦ23-32/27B(P)-6-B			
CHЦ23-19/27B(P)-6-B	35.3	26.3	
CHЦ23-28/27B(P)-6-B			
CHЦ23-41/30B(P)-6-B	39	29.5	
CHЦ23-24/30B(P)-6-B			
CHЦ23-55/33B(P)-6-B			
CHЦ23-32/33B(P)-6-B	42	32.6	
CHЦ23-61/36B(P)-6-B			
CHЦ23-43/36B(P)-6-B	46	35.8	
CHЦ23-45/39B(P)-6-B			
	49	39	

Model	size mm			
	D	d	H	L
CHЦ23-4/14B(P)-8-B	22.6	14	45	69
CHЦ23-3/14B(P)-8-B				
CHЦ23-10/18B(P)-8-B				
CHЦ23-7/18B(P)-8-B	26	18.5		
CHЦ23-19/22B(P)-8-B	29.7	21.7		
CHЦ23-10/22B(P)-8-B				
CHЦ23-7/22B(P)-8-B				
CHЦ23-19/24B(P)-8-B	32.9	24.85		
CHЦ23-32/27B(P)-8-B	35.3	26.3		
CHЦ23-19/27B(P)-8-B				
CHЦ23-28/27B(P)-8-B				
CHЦ23-41/30B(P)-8-B	39	29.5		
CHЦ23-24/30B(P)-8-B				
CHЦ23-55/33B(P)-8-B				
CHЦ23-32/33B(P)-8-B	42	32.6		
CHЦ23-61/36B(P)-8-B	46	35.8		
CHЦ23-43/36B(P)-8-B				
CHЦ23-45/39B(P)-8-B				
CHЦ23-45/39B(P)-8-B	49	39		

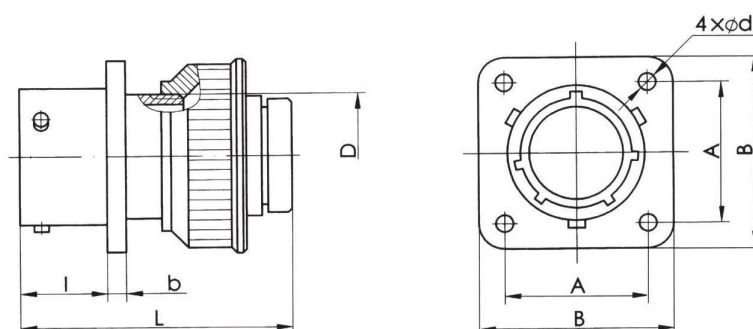
ZH23 Series of environmental-resistant bayonet electrical connectors

11-Plug with simplified tail attachment



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-11-B	22.6	14	32.5
CHL23-3/14B(P)-11-B			
CHL23-10/18B(P)-11-B			
CHL23-7/18B(P)-11-B	26	18.5	
CHL23-19/22B(P)-11-B			
CHL23-10/22B(P)-11-B	29.7	21.7	
CHL23-7/22B(P)-11-B			
CHL23-19/24B(P)-11-B	32.9	24.85	
CHL23-32/27B(P)-11-B			
CHL23-19/27B(P)-11-B	35.3	26.3	
CHL23-28/27B(P)-11-B			
CHL23-41/30B(P)-11-B	39	29.5	
CHL23-24/30B(P)-11-B			
CHL23-55/33B(P)-11-B	42	32.6	
CHL23-32/33B(P)-11-B			
CHL23-61/36B(P)-11-B	46	35.8	
CHL23-43/36B(P)-11-B			
CHL23-45/39B(P)-11-B	49	39	

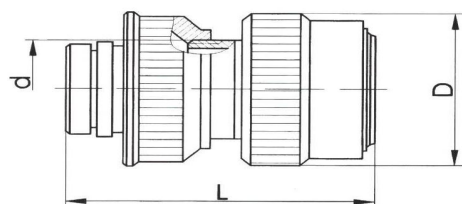
12-Socket with 09 type thermoplastic sleeve tail attachment



Model	size mm						
	A	B	D	dmin	l	bmax	L
CHL23-4/14B(P)-12-B	16.5	21.7	14	2.2	11.3	1.4	50
CHL23-3/14B(P)-12-B							
CHL23-10/18B(P)-12-B	19.5	25.9	18.5				
CHL23-7/18B(P)-12-B							
CHL23-19/22B(P)-12-B	23	29.4	21.7				
CHL23-10/22B(P)-12-B							
CHL23-7/22B(P)-12-B	25	31.4	24.85				
CHL23-19/24B(P)-12-B							
CHL23-32/27B(P)-12-B	27	33.4	26.3				
CHL23-19/27B(P)-12-B							
CHL23-28/27B(P)-12-B	31	37.8	29.5				
CHL23-41/30B(P)-12-B							
CHL23-24/30B(P)-12-B	34	41.5	32.6				
CHL23-55/33B(P)-12-B							
CHL23-32/33B(P)-12-B	36.5	44.5	35.8				
CHL23-61/36B(P)-12-B							
CHL23-43/36B(P)-12-B	40	46.4	39				
CHL23-45/39B(P)-12-B							

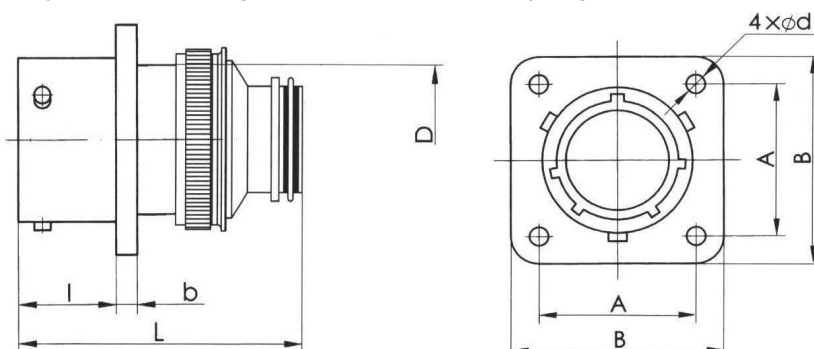
ZH23 Series of environmental-resistant bayonet electrical connectors

13-Plug with 09 type thermoplastic sleeve tail attachment



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-13-B	22.6	14	50
CHL23-3/14B(P)-13-B			
CHL23-10/18B(P)-13-B	26	18.5	
CHL23-7/18B(P)-13-B			
CHL23-19/22B(P)-13-B	29.7	21.7	
CHL23-10/22B(P)-13-B			
CHL23-7/22B(P)-13-B			
CHL23-19/24B(P)-13-B	32.9	24.85	
CHL23-32/27B(P)-13-B	35.3	26.3	
CHL23-19/27B(P)-13-B			
CHL23-28/27B(P)-13-B			
CHL23-41/30B(P)-13-B	39	29.5	51
CHL23-24/30B(P)-13-B			
CHL23-55/33B(P)-13-B	42	32.6	
CHL23-32/33B(P)-13-B			
CHL23-61/36B(P)-13-B	46	35.8	
CHL23-43/36B(P)-13-B			
CHL23-45/39B(P)-13-B	49	39	

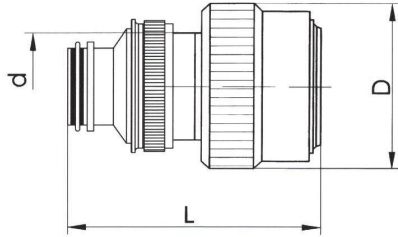
15-Socket with 05 type shielded straight tail attachment (memory ring)



Model	size mm						
	A	B	D	dmin	l	bmax	L
CHЦ23-4/14B(P)-15-B	16.5	21.7	14	2.2	11.3	1.4	55
CHЦ23-3/14B(P)-15-B							
CHЦ23-10/18B(P)-15-B	19.5	25.9	18.5	3.2			
CHЦ23-7/18B(P)-15-B							
CHЦ23-19/22B(P)-15-B	23	29.4	21.7				
CHЦ23-10/22B(P)-15-B							
CHЦ23-7/22B(P)-15-B	25	31.4	24.85				
CHЦ23-19/24B(P)-15-B							
CHЦ23-32/27B(P)-15-B	27	33.4	26.3				
CHЦ23-19/27B(P)-15-B							
CHЦ23-28/27B(P)-15-B	31	37.8	29.5				
CHЦ23-41/30B(P)-15-B							
CHЦ23-24/30B(P)-15-B	34	41.5	32.6		14.5	2.15	
CHЦ23-55/33B(P)-15-B							
CHЦ23-32/33B(P)-15-B	36.5	44.5	35.8	15.3			
CHЦ23-61/36B(P)-15-B							
CHЦ23-43/36B(P)-15-B							
CHЦ23-45/39B(P)-15-B	40	46.4	39				

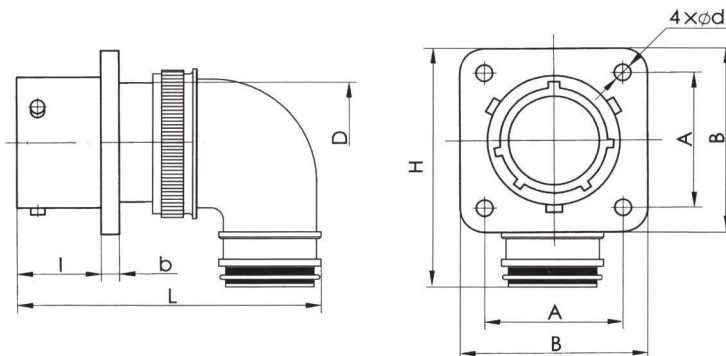
ZH23 Series of environmental-resistant bayonet electrical connectors

16-Plug with 05 type shielded straight tail attachment (memory ring)



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-16-B	22.6	14	55
CHL23-3/14B(P)-16-B			
CHL23-10/18B(P)-16-B	26	18.5	
CHL23-7/18B(P)-16-B			
CHL23-19/22B(P)-16-B	29.7	21.7	
CHL23-10/22B(P)-16-B			
CHL23-7/22B(P)-16-B	32.9	24.85	
CHL23-19/24B(P)-16-B			
CHL23-32/27B(P)-16-B	35.3	26.3	
CHL23-19/27B(P)-16-B			
CHL23-28/27B(P)-16-B	39	29.5	
CHL23-41/30B(P)-16-B			
CHL23-24/30B(P)-16-B	42	32.6	
CHL23-55/33B(P)-16-B			
CHL23-32/33B(P)-16-B	46	35.8	
CHL23-61/36B(P)-16-B			
CHL23-43/36B(P)-16-B	49	39	
CHL23-45/39B(P)-16-B			

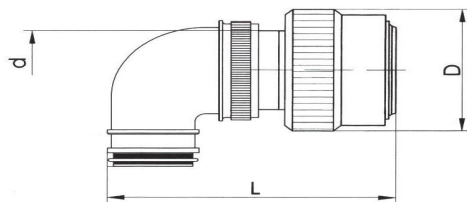
17-Socket with 06 type shielded curved tail attachment (memory ring)



Model	size mm																
	A	B	D	dmin	l	bmax	L	H									
CHL23-4/14B(P)-17-B	16.5	21.7	14	2.2	11.3	1.4	40	69									
CHL23-3/14B(P)-17-B																	
CHL23-10/18B(P)-17-B	19.5	25.9	18.5	3.2		1.8											
CHL23-7/18B(P)-17-B																	
CHL23-19/22B(P)-17-B	23	29.4	21.7														
CHL23-10/22B(P)-17-B																	
CHL23-7/22B(P)-17-B	25	31.4	24.85			2.15											
CHL23-19/24B(P)-17-B																	
CHL23-32/27B(P)-17-B	27	33.4	26.3														
CHL23-19/27B(P)-17-B																	
CHL23-28/27B(P)-17-B	31	37.8	29.5														
CHL23-41/30B(P)-17-B																	
CHL23-24/30B(P)-17-B	34	41.5	32.6		14.5												
CHL23-55/33B(P)-17-B																	
CHL23-32/33B(P)-17-B	36.5	44.5	35.8		15.3												
CHL23-61/36B(P)-17-B																	
CHL23-43/36B(P)-17-B	40	46.4	39														
CHL23-45/39B(P)-17-B																	

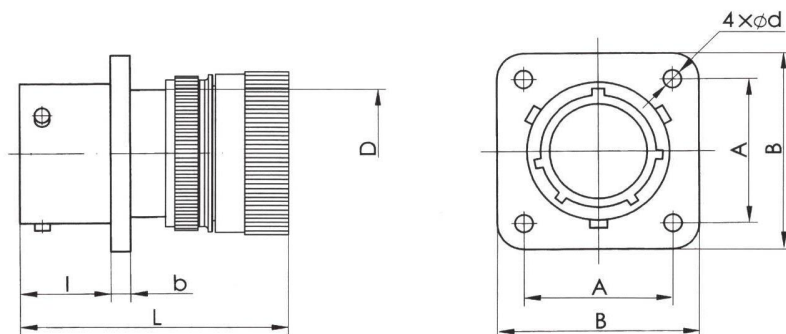
ZH23 Series of environmental-resistant bayonet electrical connectors

18-Plug with 06 type shielded bent tail attachment (memory ring)



Model	size mm			
	Dmax	d	L	
CHЦ23-4/14B(P)-18-B	22.6	14	40	
CHЦ23-3/14B(P)-18-B				
CHЦ23-10/18B(P)-18-B				
CHЦ23-7/18B(P)-18-B	26	18.5		
CHЦ23-19/22B(P)-18-B				
CHЦ23-10/22B(P)-18-B	29.7	21.7		
CHЦ23-7/22B(P)-18-B				
CHЦ23-19/24B(P)-18-B	32.9	24.85		
CHЦ23-32/27B(P)-18-B				
CHЦ23-19/27B(P)-18-B	35.3	26.3		
CHЦ23-28/27B(P)-18-B				
CHЦ23-41/30B(P)-18-B	39	29.5		
CHЦ23-24/30B(P)-18-B				
CHЦ23-55/33B(P)-18-B	42	32.6		
CHЦ23-32/33B(P)-18-B				
CHЦ23-61/36B(P)-18-B	46	35.8		
CHЦ23-43/36B(P)-18-B				
CHЦ23-45/39B(P)-18-B	49	39		

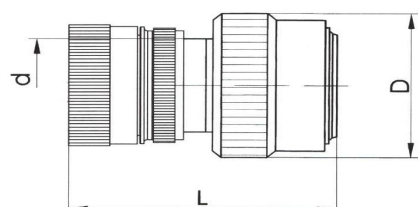
19-Socket with 07 type shielded simplified tail attachment



Model	size mm						
	A	B	D	dmin	I	bmax	L
CHL23-4/14B(P)-19-B	16.5	21.7	14	2.2	11.3	1.4	56
CHL23-3/14B(P)-19-B							
CHL23-10/18B(P)-19-B	19.5	25.9	18.5	3.2			
CHL23-7/18B(P)-19-B							
CHL23-19/22B(P)-19-B	23	29.4	21.7				
CHL23-10/22B(P)-19-B							
CHL23-7/22B(P)-19-B	25	31.4	24.85				
CHL23-19/24B(P)-19-B							
CHL23-32/27B(P)-19-B	27	33.4	26.3				
CHL23-19/27B(P)-19-B							
CHL23-28/27B(P)-19-B	31	37.8	29.5				
CHL23-41/30B(P)-19-B							
CHL23-24/30B(P)-19-B	34	41.5	32.6			14.5	
CHL23-55/33B(P)-19-B							
CHL23-32/33B(P)-19-B	36.5	44.5	35.8	15.3	2.15		
CHL23-61/36B(P)-19-B							
CHL23-43/36B(P)-19-B							
CHL23-45/39B(P)-19-B	40	46.4	39				

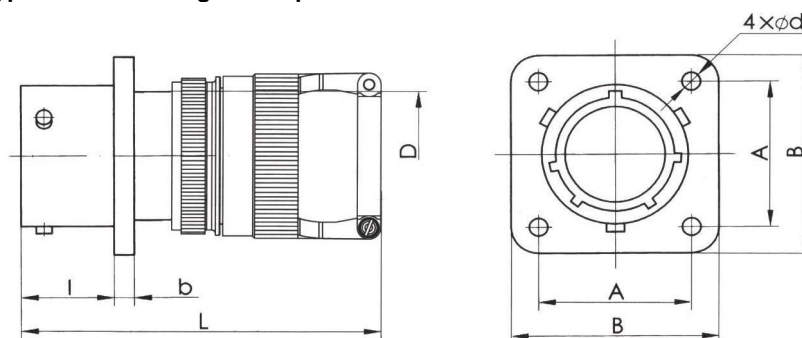
ZH23 Series of environmental-resistant bayonet electrical connectors

20-Plug with 07 type shielded simplified tail attachment



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-20-B	22.6	14	56
CHL23-3/14B(P)-20-B			
CHL23-10/18B(P)-20-B			
CHL23-7/18B(P)-20-B	26	18.5	
CHL23-19/22B(P)-20-B			
CHL23-10/22B(P)-20-B			
CHL23-7/22B(P)-20-B	29.7	21.7	
CHL23-19/24B(P)-20-B			
CHL23-32/27B(P)-20-B			
CHL23-19/27B(P)-20-B	32.9	24.85	
CHL23-28/27B(P)-20-B			
CHL23-41/30B(P)-20-B			
CHL23-24/30B(P)-20-B	35.3	26.3	
CHL23-55/33B(P)-20-B			
CHL23-32/33B(P)-20-B			
CHL23-61/36B(P)-20-B	42	32.6	
CHL23-43/36B(P)-20-B			
CHL23-45/39B(P)-20-B			
CHL23-43/36B(P)-20-B	46	35.8	
CHL23-45/39B(P)-20-B			
CHL23-45/39B(P)-20-B			

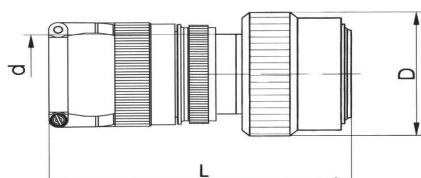
21-Socket with 08 type shielded straight clamp wire tail attachment



Model	size mm									
	A	B	D	dmin	I	bmax	L			
CHL23-4/14B(P)-21-B	16.5	21.7	14	2.2	11.3	1.4	66			
CHL23-3/14B(P)-21-B										
CHL23-10/18B(P)-21-B	19.5	25.9	18.5	3.2						
CHL23-7/18B(P)-21-B										
CHL23-19/22B(P)-21-B	23	29.4	21.7			1.8	70			
CHL23-10/22B(P)-21-B										
CHL23-7/22B(P)-21-B										
CHL23-19/24B(P)-21-B	25	31.4	24.85							
CHL23-32/27B(P)-21-B	27	33.4	26.3					1.8	72	
CHL23-19/27B(P)-21-B										
CHL23-28/27B(P)-21-B										
CHL23-41/30B(P)-21-B	31	37.8	29.5			14.5	2.15			78
CHL23-24/30B(P)-21-B										
CHL23-55/33B(P)-21-B	34	41.5	32.6							
CHL23-32/33B(P)-21-B										
CHL23-61/36B(P)-21-B	36.5	44.5	35.8		15.3					
CHL23-43/36B(P)-21-B										
CHL23-45/39B(P)-21-B	40	46.4	39							

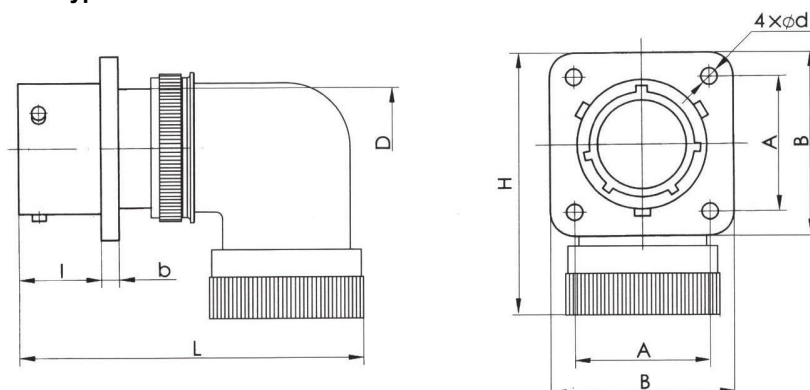
ZH23 Series of environmental-resistant bayonet electrical connectors

22-Plug with 08 type shielded straight clamp wire tail attachment



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-22-B	22.6	14	66
CHL23-3/14B(P)-22-B			
CHL23-10/18B(P)-22-B			
CHL23-7/18B(P)-22-B	26	18.5	70
CHL23-19/22B(P)-22-B			
CHL23-10/22B(P)-22-B			
CHL23-7/22B(P)-22-B	29.7	21.7	72
CHL23-19/24B(P)-22-B			
CHL23-32/27B(P)-22-B			
CHL23-19/27B(P)-22-B	32.9	24.85	78
CHL23-28/27B(P)-22-B			
CHL23-41/30B(P)-22-B			
CHL23-24/30B(P)-22-B	35.3	26.3	72
CHL23-55/33B(P)-22-B			
CHL23-32/33B(P)-22-B			
CHL23-61/36B(P)-22-B	42	32.6	78
CHL23-43/36B(P)-22-B			
CHL23-45/39B(P)-22-B			

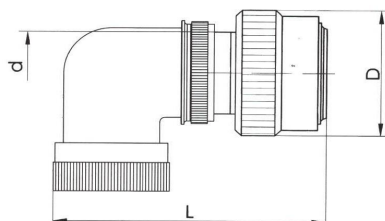
25-Socket with 10 type shielded curved tail attachment



Model	size mm							
	A	B	D	dmin	l	bmax	L	H
CHL23-4/14B(P)-25-B	16.5	21.7	14	2.2	11.3	1.4	66	57
CHL23-3/14B(P)-25-B								
CHL23-10/18B(P)-25-B	19.5	25.9	18.5	3.2		1.8	70	
CHL23-7/18B(P)-25-B								
CHL23-19/22B(P)-25-B	23	29.4	21.7					
CHL23-10/22B(P)-25-B								
CHL23-7/22B(P)-25-B	25	31.4	24.85					
CHL23-19/24B(P)-25-B								
CHL23-32/27B(P)-25-B	27	33.4	26.3			72		
CHL23-19/27B(P)-25-B								
CHL23-28/27B(P)-25-B	31	37.8	29.5					
CHL23-41/30B(P)-25-B								
CHL23-24/30B(P)-25-B								
CHL23-55/33B(P)-25-B								
CHL23-32/33B(P)-25-B	34	41.5	32.6	14.5	2.15	78	73	
CHL23-61/36B(P)-25-B				15.3				
CHL23-43/36B(P)-25-B	36.5	44.5	35.8					
CHL23-45/39B(P)-25-B								40

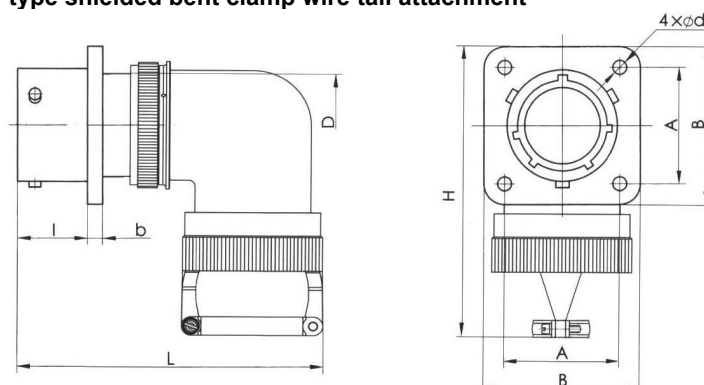
ZH23 Series of environmental-resistant bayonet electrical connector

26-Plug with 10 type shielded bent tail attachment



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-26-B	22.6	14	66
CHL23-3/14B(P)-26-B			
CHL23-10/18B(P)-26-B		18.5	
CHL23-7/18B(P)-26-B	26		70
CHL23-19/22B(P)-26-B			
CHL23-10/22B(P)-26-B		21.7	
CHL23-7/22B(P)-26-B	29.7	24.85	72
CHL23-19/24B(P)-26-B			
CHL23-32/27B(P)-26-B			
CHL23-19/27B(P)-26-B	35.3	26.3	78
CHL23-28/27B(P)-26-B			
CHL23-41/30B(P)-26-B			
CHL23-24/30B(P)-26-B	39	29.5	78
CHL23-55/33B(P)-26-B			
CHL23-32/33B(P)-26-B		32.6	
CHL23-61/36B(P)-26-B	42	35.8	78
CHL23-43/36B(P)-26-B			
CHL23-45/39B(P)-26-B		39	

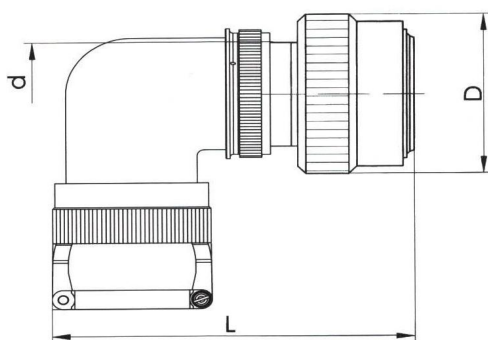
27-Socket with 11 type shielded bent clamp wire tail attachment



Model	size mm							
	A	B	D	dmin	I	bmax	L	H
CHL23-4/14B(P)-27-B	16.5	21.7	14	2.2	11.3	1.4	66	51
CHL23-3/14B(P)-27-B								
CHL23-10/18B(P)-27-B	19.5	25.9	18.5	3.2				
CHL23-7/18B(P)-27-B								
CHL23-19/22B(P)-27-B	23	29.4	21.7					
CHL23-10/22B(P)-27-B								
CHL23-7/22B(P)-27-B	25	31.4	24.85					
CHL23-19/24B(P)-27-B								
CHL23-32/27B(P)-27-B	27	33.4	26.3					
CHL23-19/27B(P)-27-B								
CHL23-28/27B(P)-27-B	31	37.8	29.5					
CHL23-41/30B(P)-27-B								
CHL23-24/30B(P)-27-B	34	41.5	32.6	14.5	1.8	72	87	
CHL23-55/33B(P)-27-B								
CHL23-32/33B(P)-27-B	36.5	44.5	35.8	15.3	2.15	78	113	
CHL23-61/36B(P)-27-B								
CHL23-43/36B(P)-27-B								
CHL23-45/39B(P)-27-B	40	46.4	39					

ZH23 series environmental resistant bayonet electrical connector

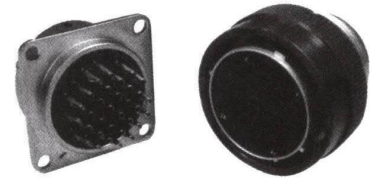
28-Plug with type 11 shield curved clip



Model	size mm		
	Dmax	d	L
CHL23-4/14B(P)-28-B	22.6	14	66
CHL23-3/14B(P)-28-B		14	
CHL23-10/18B(P)-28-B	26	18.5	66
CHL23-7/18B(P)-28-B		18.5	
CHL23-19/22B(P)-28-B	29.7	21.7	72
CHL23-10/22B(P)-28-B		21.7	
CHL23-7/22B(P)-28-B	32.9	24.85	
CHL23-19/24B(P)-28-B		24.85	
CHL23-32/27B(P)-28-B	35.3	26.3	
CHL23-19/27B(P)-28-B		26.3	
CHL23-28/27B(P)-28-B	39	29.5	78
CHL23-41/30B(P)-28-B		29.5	
CHL23-24/30B(P)-28-B	42	32.6	
CHL23-55/33B(P)-28-B		32.6	
CHL23-32/33B(P)-28-B	46	35.8	
CHL23-61/36B(P)-28-B		35.8	
CHL23-43/36B(P)-28-B	49	39	
CHL23-45/39B(P)-28-B		39	

ZH28 series sealed socket

CHL28 is a glass sintered sealed socket, which can be used with the corresponding plug of CHL23 In circuits for DC, AC, pulse current.



Localized models:ZH28

Technical Parameters

- ◎ **Ambient temperature:** -60℃~+155℃(highest 200℃)
- ◎ **Vibration:** 1-5000Hz ≤40g
- ◎ **Shock:** Many times 150g, once 500g
- ◎ **Contact resistance:**

	Ø1.0	Ø1.5	Ø2.0
resistance:	≤15mΩ	≤10mΩ	≤8mΩ
- ◎ **Medium pressure resistance:**

grade	working voltage	Testing voltage(v)
A	700	2100
B	500	1850
C	400	1600
- ◎ **Insulation resistance:** ≥5000MΩ
- ◎ **working voltage:** 700V
- ◎ **Technical Parameters:** BPO.364.038TV
Q/3E 20005-2003
- ◎ **Salt spray:** 48h
- ◎ **Humidity:** 30℃~60℃ 92%~98%
- ◎ **Mechanical durability:** 500

- ◎ **contact current**

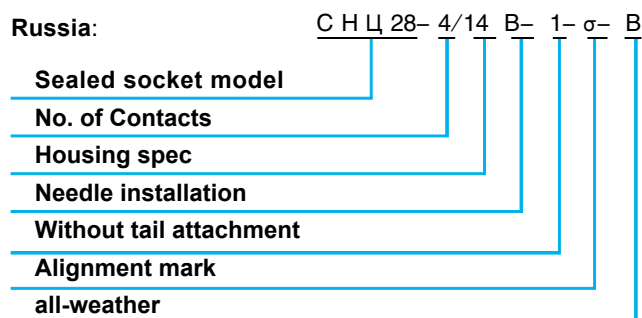
No. of Contacts Model code	Contact diameter(mm)	Single contact current A	
		Working current	Maximum current
4/14	1	3	6
3/14	1.5	6	12
10/18	1	3	6
7/18	1.5	6	12
19/22	1	3	6
10/22	1.5	6	12
7/22	1.5	6	12
7/22	2.0	9	18
19/24	1.0	3	6
	1.5	6	12
19/27	1.5	6	12
28/27	1.0	3	6
28/27	1.5	6	12
32/27	1.0	3	6
41/30	1.0	3	6
24/30	1.5	6	12
55/33	1.0	3	6
32/33	1.0	3	6
32/33	2.0	9	18
61/36	1.0	3	6
43/36	1.0	3	6
43/36	1.5	6	12
45/39	1.0	3	6
	1.5	6	12
	2.0	9	18

ZH28 series sealed socket

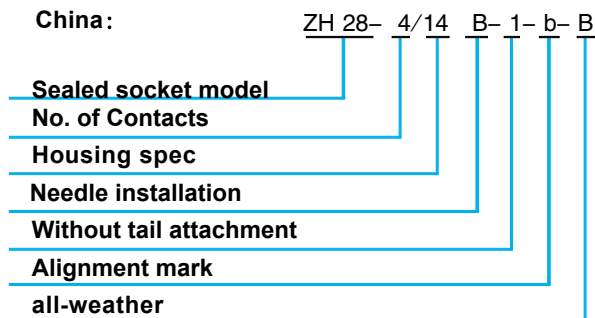
Marker instructions

example:

Russia:



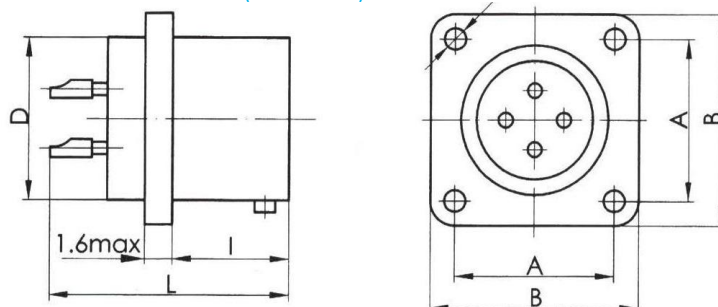
China:



Insulator bond position and contact distribution (vide infra)

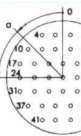
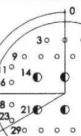
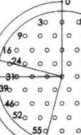
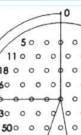
		
Φ1.0mm	Φ1.5mm	Φ2.0mm

Outline and Installation Dimension (mm)



Model	size mm					
	A	B	d1	L	I	D
CHЦ28-4/14B-1-B	16.5	21.7	2.2	23.6	11.3	14
CHЦ28-3/14B-1-B						18
CHЦ28-10/18B(P)-1-B	19.5	25.9	3.2			22
CHЦ28-7/18B(P)-1-B						
CHЦ28-19/22B(P)-1-B	23	29.4				27
CHЦ28-10/22B(P)-1-B						
CHЦ28-7/22B(P)-1-B	25	31.4				33
CHЦ28-19/24B(P)-1-B						
CHЦ28-32/27B-1-B	27	33.4		39		
CHЦ28-19/27B-1-B					42	
CHЦ28-28/27B-1-B	31	37.8		45		
CHЦ28-41/30B-1-B					48	
CHЦ28-24/30B-1-B	34	41.5	51			
CHЦ28-55/33B-1-B				54		
CHЦ28-32/33B-1-B	36.5	44.5	57			
CHЦ28-61/36B-1-B				60		
CHЦ28-43/36B-1-B	40	46.4	63			
CHЦ28-45/39B-1-B				66		

ZH28 series sealed socket

No. of Contacts Housing spec	Variable key position angle				Contact distribution	No. of Contacts Housing spec	Variable key position angle				Contact distribution
	a	σ	B	Γ			a	σ	B	Γ	
4/14	—	135°	—	—		28/27	45°	150°	195°	—	
3/14	160°	—	—	—		32/27	45°	135°	—	270°	
10/18	—	70°	—	—		41/30	45°	90°	—	—	
7/18	90°	—	—	—		24/30	90°	135°	200°	—	
19/22	30°	—	225°	—		32/33	90°	120°	—	—	
10/22	—	100°	195°	—		55/33	75°	90°	—	165°	
7/22	80°	170°	225°	—		43/36	90°	135°	200°	250°	
19/24	30°	120°	245°	—		61/36	90°	160°	190°	—	
19/27	30°	195°	—	—		45/39	90°	180°	270°	31	

2PX series connectors

2PM,2PMД small circular electrical connector, used for electrical and radio device circuit connection, plug and socket connected by a threaded connection nut.2PМГ,2PMДГ is sealed and 2PMПГ,2PMПД is sealed through the wall.



Localized model:2PX

(2PM.2PMД series unified model is 2PX,The combination code

is unified)

Technical function

- ◎ **Ambient temperature:** -60℃~+150℃, -60℃~+200℃(seal)
- ◎ **Vibration:** 10~5000Hz50g
- ◎ **Shock:** Once 500g, Many times 100g
- ◎ **working voltage:** ≤560V
- ◎ **Contact current:**

Ø1.0	Ø1.5	Ø2.0	Ø3.0
5A	10A	20A	40A
- ◎ **Contact resistance:**

Ø1.0	Ø1.5	Ø2.0	Ø3.0
≤5mΩ	≤2.5mΩ	≤1.6mΩ	≤0.8mΩ
- ◎ **Insulation resistance:** ≥1000MΩ(normal), ≥20MΩ(damp heat)
- ◎ **Mechanical durability:** mating cycles 500 times
- ◎ **Warranty period:** 7 years
- ◎ **Technical Parameters:** Q/3E 20006-2003

Marker instructions

sequence number	Code meaning	Russian code	sequence number	Code meaning	China(117)Factory code
1	Model Unsealed Unsealed heat-resistant T seal(Г) Sealing through walls(П)	2PM, 2PMД 2PMT, 2PMДТ 2PMГ, 2PMГД 2PMПГ, 2PMПД	1	Model Unsealed seal(M) Sealing through walls(C)	2PX 2PX-M 2PX-C
2	Shell standard dimensions(mm)	14, 18, 22, 24, 27 30, 33, 36, 39, 42, 45	2	Shell standard dimensions(mm)	14, 18, 22, 24, 27 30, 33, 36, 39, 42, 45
3	Connector composition: socket plug	Б (fixed end) К (free end)	3	Category of contact parts needle, hole	J (needle) K (hole)
4	Tail attachment: Straight type- Bend type	П (straight), У (curved)	4	No. of Contacts	4, 7, 8, 10, 19, 20 22, 24, 30, 32, 42 45, 50
5	Tail attachment: shield, unshielded	Э (screen), Н (Non-screen)	5	Connector composition: plug Unsealed socket Sealed socket (pierce through a wall)	Not marked A M(C)
6	No. of Contacts	4, 7, 8, 10, 19, 20 22, 24, 30, 32, 42 45, 50	6	Tail attachment Direct shielding (Unshielded) Curved shielding (Unshielded)	P (Q) R (S)
7	Category of contact parts needle, hole	Ш (needle) Г (hole)	7	Contact arrangement and combination number	Same as the Russian code
8	Contact arrangement and combination number 1-9	1- is Φ1 2- Φ1+Φ1.5 3- Φ2+Φ3 4- Φ1+Φ3			

2PX series connectors

sequence number	Code meaning	Russian code
		5—are all $\Phi 1.5$ 6— $\Phi 1.5+\Phi 3$ 7— $\Phi 1.5+\Phi 2+\Phi 3$ 8— $\Phi 1.5+\Phi 2$ 9—are all $\Phi 3$
9	Contact parts coated with metals, silver, and nickel	A(metals), B(silver), E(nickel)
10	temperature grade 100°C, 200°C	1(100°C) 2(200°C)
11	all-weather	B

sequence number	Code meaning	Chinese code
8	Contact plating	B(metals), Do not mark(silver) notes: M/seal, nickeling C/pierce through a wall, nickeling
9	Left plug	U

Russia:

Model	2PM	27	Б	П	Н	24	Щ	1	А	1	В (socket)
Housing spec	2PM	27	К	П	Н	24	Г	1	А	1	В (plug)
K plug 'b' socket											
Straight type											
Unshielded tail attachment											
No. of Contacts											
Installing holes Г, Needle installation Щ											
Contact arrangement and combination number(complete $\Phi 1$)											
Contact gold plating											
temperature grade(100°C)											
all-weather											

China(117):Unsealed plug seat

	2PX	27	J	24	A	Q	1	B (socket)
	2PX	27	K	24	Q	1	B (plug)	
Model								
Housing spec								
K Installing holes J Needle installation								
No. of Contacts								
plug(No identification)A socket								
Straight unshielded tail attachment								
Contact arrangement and combination number(complete Φ1)								
Contact gold plating, Nickel plating is not marked								

Sealed through wall socket

Model	2PX	27	J	24	C	1	B
Housing spec							
Needle installation							
No. of Contacts							
Sealed through wall socket							
Arrange combination numbers							
Contact gold plating, Nickel plating is not marked							

Sealed socket

Model	2PX	27	J	24	M	1	B
Housing spec							
Needle installation							
No. of Contacts							
Sealed socket							
Arrange combination numbers							
Contact gold plating, Nickel plating is not marked							

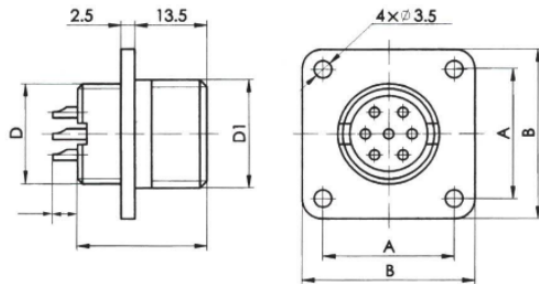
2PX series connectors

Contact arrangement (From the mating surface of the socket insulator)

Housing spec	Arrange combination numbers	14/4/ 1 (Housing spec/No. of Contacts/ Arrange combination numbers)	Contact diameter			
			ø 1	ø 1.5	ø 2	ø 3
14			○	●	◐	◑
		18/7/1 18/4/5	22	22/4/3	22/10/1	
18		 		 		
		24/10/5 24/19/1				
24		 				
		27/7/5 27/7/2 27/19/5 27/24/1				
27		   				
		30/8/7 30/24/5 30/32/1				
30		  				
		33/7/9 33/20/4 33/20/1 33/32/5				
33		   				
		36/22/1 36/20/2 36/20/6 36/20/5				
36		   				
		39/22/5 39/45/2				
39		 				
		42/30/2 42/45/5 42/50/2	45	45/50/8		
42		  				

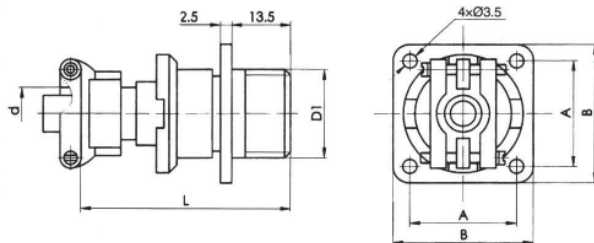
Outline and Installation Dimension

Socket without tail attachment(Б)



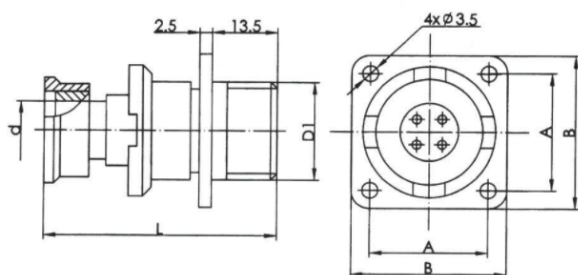
Housing spec	size(mm)				
	D(左)	D ₁	A	B	B
14	M14×1	M16×1	17±0.1	24	24
18	M18×1	M20×1	20±0.1	27	
22	M22×1	M24×1	23±0.1	30	
24	M24×1	M27×1.5	26±0.1	33	
27	M27×1	M30×1.5	29±0.1	36	
30	M30×1	M33×1.5	31±0.1	38	
33	M33×1	M36×1.5	32±0.1	40	
36	M36×1	M39×1.5	35±0.1	43	
39	M39×1	M42×1.5	37±0.1	46	
42	M42×1	M45×1.5	40±0.1	49	
45	M45×1	M48×1.5	43±0.1	52	26

Socket with straight unshielded tail attachment(БПН)



Housing spec	size(mm)				
	D1	d	A	B	L
14	M16×1	6.5	17±0.1	24	54
18	M20×1	10.5	20±0.1	27	54
22	M24×1	14.5	23±0.1	30	57
24	M27×1.5	16.5	26±0.1	33	62.5
27	M30×1.5	18.5	29±0.1	36	62.5
30	M33×1.5	20.5	31±0.1	38	62.5
33	M36×1.5	22.5	32±0.1	40	67.5
36	M39×1.5	22.5	35±0.1	43	67.5
39	M42×1.5	24.5	37±0.1	46	67.5
42	M45×1.5	30.5	40±0.1	49	67.5
45	M48×1.5	30.5	43±0.1	52	67.5

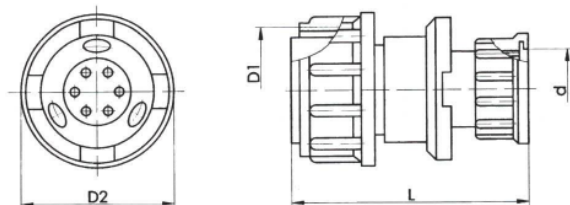
Socket with straight shielded tail attachment(БПЭ)



Housing spec	size(mm)				
	D1	d	A	B	L
14	M16×1	6.5	17±0.1	24	48
18	M20×1	10.5	20±0.1	27	48
22	M24×1	14	23±0.1	30	48
24	M27×1.5	16.5	26±0.1	33	54
27	M30×1.5	18	29±0.1	36	54
30	M33×1.5	20.5	31±0.1	38	54
33	M36×1.5	23.7	32±0.1	40	59
36	M39×1.5	22.5	35±0.1	43	59
39	M42×1.5	25	37±0.1	46	59
42	M45×1.5	29.5	40±0.1	49	59
45	M48×1.5	29.5	43±0.1	52	59

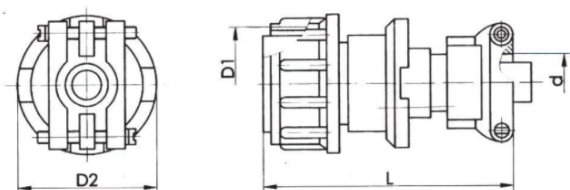
2PX series connectors

⊙ Plug with straight shielded tail attachment(КПЭ)



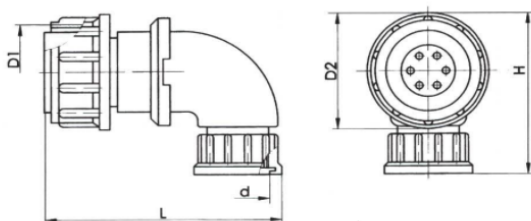
Housing spec	size(mm)			
	D1	D2	d	L
14	M16×1	22	6.5	48
18	M20×1	25	10.5	48
22	M24×1	29	14	48
24	M27×1.5	32	16.5	54
27	M30×1.5	35	18	54
30	M33×1.5	39	20.5	54
33	M36×1.5	42	23.7	59
36	M39×1.5	45	22.5	59
39	M42×1.5	48.5	25	59
42	M45×1.5	51	29.5	59
45	M48×1.5	54	29.5	59

⊙ Plug with straight unshielded tail attachment(КПН)



Housing spec	size(mm)			
	D1	D2	d	L
14	M16×1	22	6.5	54
18	M20×1	25	10.5	54
22	M24×1	29	14.5	57
24	M27×1.5	32	16.5	62.5
27	M30×1.5	35	18.5	62.5
30	M33×1.5	39	20.5	62.5
33	M36×1.5	42	22.5	67.5
36	M39×1.5	45	22.5	67.5
39	M42×1.5	48.5	24.5	67.5
42	M45×1.5	51	30.5	67.5
45	M48×1.5	54	30.5	67.5

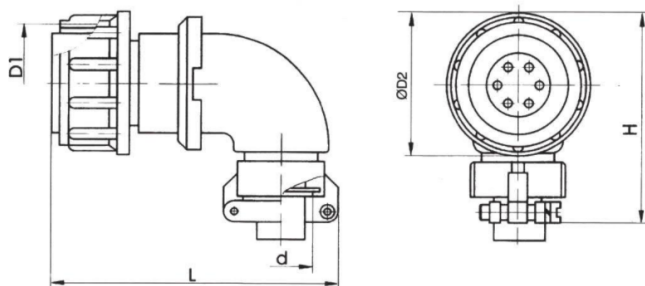
⊙ Plug with curved shielded tail attachment(КΥЭ)



Housing spec	size(mm)				
	D1	D2	d	H	L
14	M16×1	22	6.5	30.8	48
18	M20×1	25	10.5	35	51
22	M24×1	29	14	38	54
24	M27×1.5	32	16.5	41	57
27	M30×1.5	35	18	44	59
30	M33×1.5	39	20.5	47.8	62
33	M36×1.5	42	23.7	50.8	65
36	M39×1.5	45	22.5	53.8	72
39	M42×1.5	48.5	25	56	72
42	M45×1.5	51	29.5	60	72

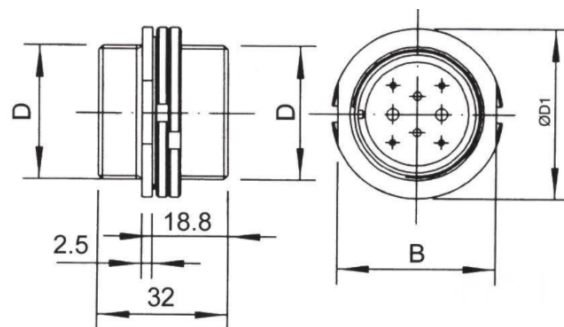
2PX series connectors

⊙ Plug with curved unshielded tail attachment(КУН)



Housing spec	size mm				
	D1	D2	d	H	L
14	M16×1	22	6.5	40	51
18	M20×1	25	10.5	41	54
22	M24×1	29	14.5	47	59
24	M27×1.5	32	16.5	50	60
27	M30×1.5	35	18.5	53	64
30	M33×1.5	39	20.5	57	65
33	M36×1.5	42	22.5	60	69
36	M39×1.5	45	22.5	63	74
39	M42×1.5	48.5	24.5	66	73
42	M45×1.5	51	30.5	69	76

⊙ Sealed through wall socket(ГП)



Housing spec	size mm		
	D	D1	B
14	M16×1	25	22
18	M20×1	29	26
22	M24×1	33	30
24	M27×1.5	36	33
27	M30×1.5	39	36
30	M33×1.5	42	39
33	M36×1.5	45	42
36	M39×1.5	48	45
39	M42×1.5	51	48
42	M45×1.5	54	51

Detailed list of contact arrangement and combination codes

Housing spec	Contact parts combination code number	Total number of contacts	Contact diameter(mm)and quantity			
			Ø1.0	Ø1.5	Ø2.0	Ø3.0
14	1	4	4			
18	1	7	7			
	5	4		4		
22	1	10	10			
	3	4			2	2
24	1	19	19			
	5	10		10		
27	1	24	24			
	2	7	5	2		
	5	7		7		
	5	19		19		
30	1	32	32			
	5	24		24		
	7	8		4	2	2

Housing spec	Contact parts combination code number	Total number of contacts	Contact diameter(mm)and quantity			
			Ø1.0	Ø1.5	Ø2.0	Ø3.0
33	1	20	20			
	4	20	18			2
	5	32		32		
	9	7				7
36	1	22	22			
	2	20	16	4		
	5	20		20		
	6	20		18		2
39	2	45	40	5		
	5	22		22		
42	2	30	15	15		
	2	50	43	7		
	5	45		45		
45	8	50		35	15	

The PBH series push-pull electric connector

PBH1、PBH2、PBH3 For the electrical connection in the AC-DC circuit. The PBH1 contacts are silver plated palladium alloy, PBH2 contacts are silver plated and PBH3 contacts are gold plated. The plug and socket are connected and pushed and pulled separately.



Localized models TY (PBH2)

Technical Parameters

- ⊙ **Ambient temperature:** PBH1 $-60^{\circ}\text{C} \sim +150^{\circ}\text{C}$; PBH2(3) $-60^{\circ}\text{C} \sim +100^{\circ}\text{C}$,
- ⊙ **Contact resistance:** PBH1 $\leq 3\text{m}\Omega$; PBH2(3) $\leq 5\text{m}\Omega$;
- ⊙ **Insulation resistance:** $\geq 5000\text{M}\Omega$
- ⊙ **Vibration:** PBH1 1-1000Hz 7.5g
PBH2(3) 1-5000Hz 18g
- ⊙ **Shock:** Once 150g, Many times 35g
- ⊙ **Mechanical and Work durability:** mating cycles 500 times 1000h
- ⊙ **Warranty period:** 15 year
- ⊙ **Technical Parameters:** БЛ0.364.049TY ABO.364.002TY

Contact characteristics

Model	Contact parts arrangement	Contact diameter	No. of Contacts	Single contact current (A)	Total current (A)	working voltage (V)
PBH1		1,5	5	5	25	200
PBH2, PBH3		1	5	5	13	300
PBH2, PBH3		1	7	5	15	300

Marker instructions

Russia:

	PBH	1-5-2	Ш(Г) - 1
Model			
Silver plated palladium alloy			
No. of Contacts			
Contact combination code			
Ш plug Г socket			
Type 1 housing			

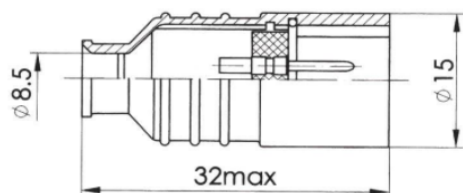
China: TY-7T(plug) TY-7Z(socket) corresponding PBH2

	PBH	2(3)	5(7)	1	Ш(Г)	7	B
Model							
2 silvering 3 gold-plating							
No. of Contacts							
Contact parts combination code number							
Ш plug Г socket							
Shell type							
all-weather							

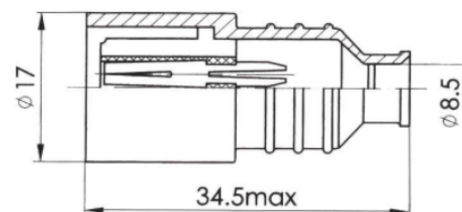
The PBH series push-pull electric connector

Outline and Installation Dimension

◎ PBH1:

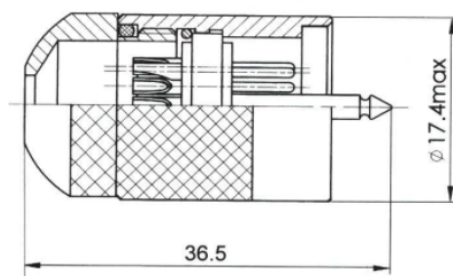


Needle installation

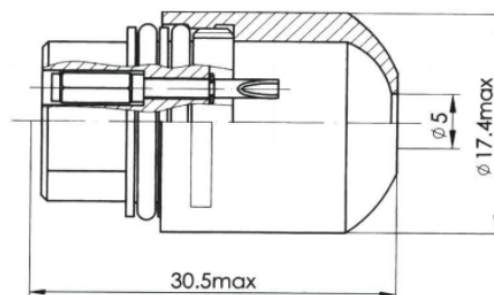


Installing holes

◎ PBH2-5,PBH3-5:

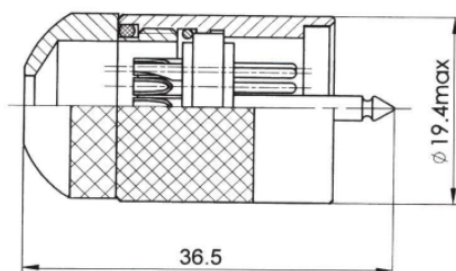


Needle installation

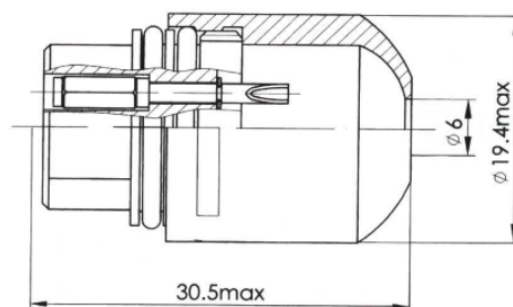


Installing holes

◎ PBH2-7,PBH3-7:



Needle installation



Installing holes

The PBH series push-pull electric connector

The PBH₂-type electric connector is used in the circuit of ac-DC (<3MHz).

Localized models:PH2



Technical function

- ◎ **Ambient temperature:** -60°C~+105°C
- ◎ **Vibration:** 1~2000Hz 30g
- ◎ **Shock:** Once 500g, Many times 40g

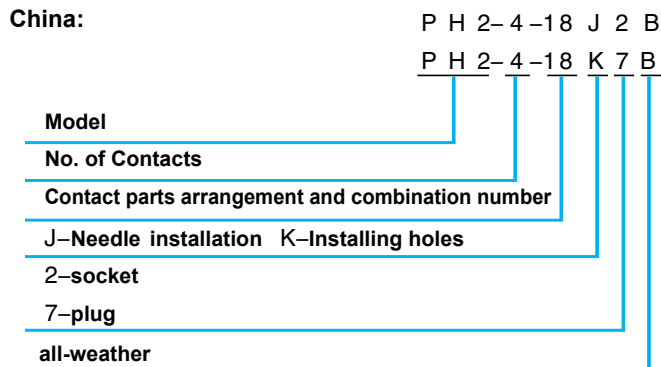
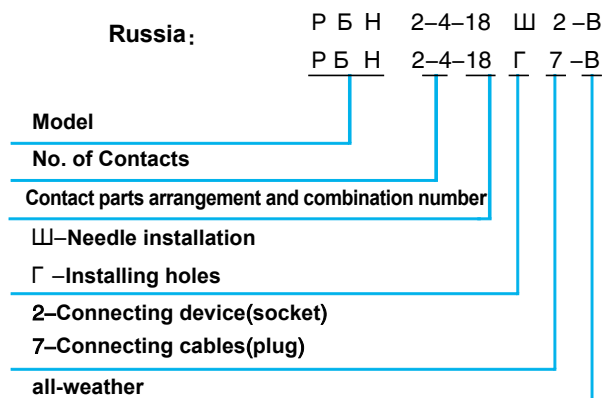
◎ Contact resistance:	Ø2.5mm	Ø3.5mm	Ø5.5mm
	≤0.002Ω	≤0.001Ω	≤0.007Ω

- ◎ **Insulation resistance:** ≥ 1000MΩ(Under normal conditions)
- ◎ **Testing voltage:** 1850V
- ◎ **voltage rating:** 500V
- ◎ **working hours:** 1000 hours
- ◎ **Mechanical durability:** mating cycles 1500 times
- ◎ **Warranty period:** 7 years
- ◎ **Technical Parameters:** ABO.364.032TY

Contact characteristics

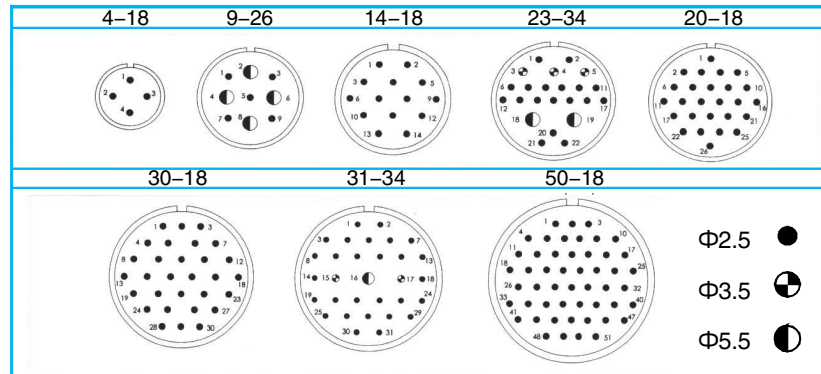
Contact diameter mm/ quantity	Single contact current A	Total current of electrical connectors A	Insertion and Extraction Force N(kg)
2.5/4	20	80	39(4)
2.5/5	20	400	118(12)
5.5/4	100	400	
2.5/14	20	220	
2.5/18	20	470	147(15)
3.5/3	50		
5.5/2	100		
2.5/26	20	260	128(13)
2.5/30	20	300	147(15)
2.5/28	20	460	177(18)
3.5/2	50		
5.5/1	100		
2.5/50	20	450	196(20)

Marker instructions



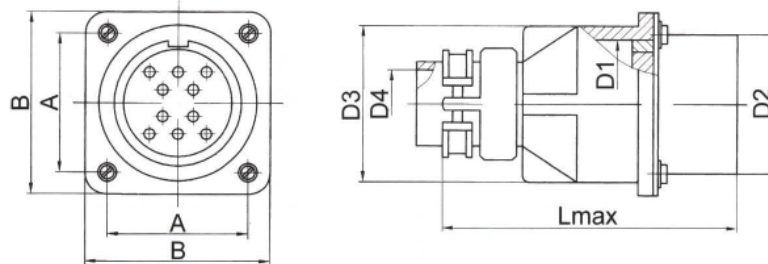
PH2-series connector

Contact arrangement



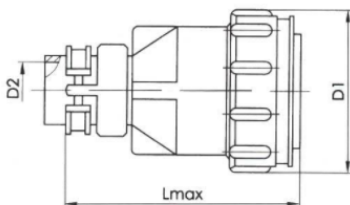
Outline and Installation Dimension

⊙ socket(2)



Model	size							quality(g)
	D ₁	D ₂	D ₃	D ₄	A	B	lmax	
РБН2-4-18Ш2	20	27	25	9	31	23	97	90
РБН2-4-18Г2								100
РБН2-14-18Ш2	40	46	46.5	17	48	40	104	230
РБН2-14-18Г2								260
РБН2-9-26Ш2	48	54	54.5	23	58	48	124	350
РБН2-9-18Г2								400
РБН2-26-18Ш2								340
РБН2-26-18Г2								390
РБН2-23-34Ш2								380
РБН2-23-34Г2								440
РБН2-30-18Ш2	55	60	61.5	26	64	52		360
РБН2-30-18Г2								425
РБН2-31-34Ш2								410
РБН2-31-34Г2								470
РБН2-50-18Ш2	60	66	66.5	32	68	54		400
РБН2-50-18Г2								480

⊙ plug(7)



Model	size			quality(g)
	D ₁	D ₂	Lmax	
РБН2-4-18Ш7	34	9	91	80
РБН2-4-18Г7				90
РБН2-14-18Ш7	53	17	102	205
РБН2-14-18Г7				250
РБН2-9-Ш7	61	23	122	330
РБН2-9-Г7				380
РБН2-26-18Ш7				320
РБН2-26-18Г7				380
РБН2-23-Ш7				325
РБН2-23-Г7				395
РБН2-30-18Ш7	67	32	102	320
РБН2-30-18Г7		26		390
РБН2-31-Ш7				340
РБН2-31-Г7				440
РБН2-50-18Ш7	73	32		350
РБН2-50-18Г7				440

The PM4 series bayonet quick connects to the electrical connector

The PBM4 electric connector is used in the AC / DC circuit, which meets the Russian technical conditions ГЕ0.364.196ТУ.



Localized models:PM4

Technical function

- ⊙ **Ambient temperature:** -60°C~+100°C
- ⊙ **Vibration:** 1-2000Hz 30g
- ⊙ **Shock:** Many times 40g
- ⊙ **Contact resistance:** $\Phi 1.0\text{mm} \leq 5\text{m}\Omega$
 $\Phi 1.5\text{mm} \leq 2.5\text{m}\Omega$
 $\Phi 2.0\text{mm} \leq 1.6\text{m}\Omega$
- ⊙ **Working current, working voltage, Insertion and Extraction Force**
- ⊙ **Withstanding voltage:** $\geq 1850\text{V}$
- ⊙ **Insulation resistance:** 1000M Ω
- ⊙ **working hours:** 1000 hours(least)
- ⊙ **mating cycles:** 1000 times
- ⊙ **Warranty period:** 7 years
- ⊙ **Technical Parameters:** (ГЕ0.364.196ТУ)
- ⊙ **TechnicalParameters:** 3Е0 204 063JT

No. of Contacts	Working current (A)	working voltage(V)	Insertion and Extraction Force (kg)
7-1	5.8	560	0.25
4-2	12.5		
10-2	8.3		0.30
24-1	4.2		0.35
19-2	5.8		
32-1	3.32		0.4
24-2	6.0		
50-7	3.6;5.1	560	0.6
50-9	4.5;7.0	700	
55-2	5.1	560	0.9

Marker instructions

Russia:

P B M 4-4-2 Ш 1(2,3) - B
P B M 4-4-2 Г 6(7) - B

Model

No. of Contacts

Contact parts arrangement and combination number

Ш-Needle installation
Г-Installing holes

1-The socket does not have tail accessories
2-Socket with straight clip tail accessories
3-Socket socket with casing tail accessories
6-Plug is provided with a casing tail attachment
7-Plug with straight clip tail attachment

all-weather

China:

P M 4-4-2 J 1(2,3) B
P M 4-4-2 K 6(7) B

Model

No. of Contacts

Contact parts arrangement and combination number

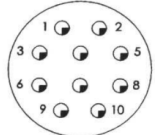
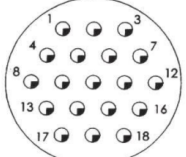
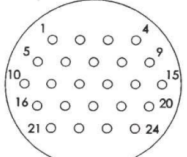
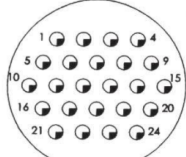
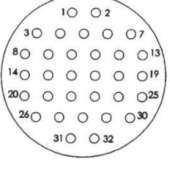
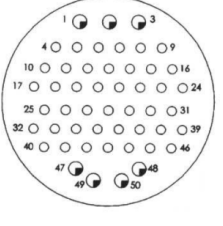
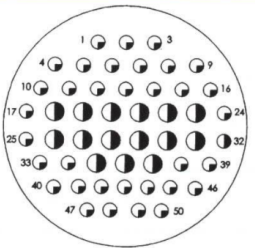
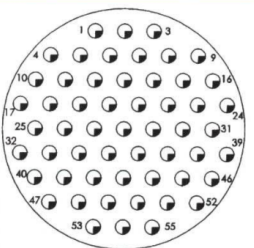
J-Needle installation
K-Installing holes

1-The socket does not have tail accessories
2-Socket with straight clip tail accessories
3-Socket socket with casing tail accessories
6-Plug is provided with a casing tail attachment
7-Plug with straight clip tail attachment

all-weather

The PM4 series bayonet quick connects to the electrical connector

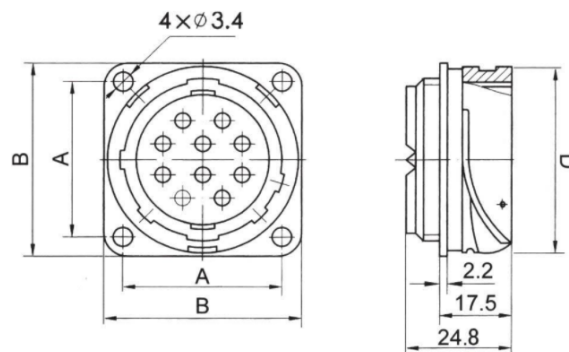
Contact arrangement (Looking at the front end of the hole)

4-2	7-1	10-2	19-2	24-1	24-2
					
32-1	50-7	50-9	55-2		
					
○ Ø1.0mm			◐ Ø1.5mm		● Ø2.0mm

Outline and Installation Dimension

(一)socket

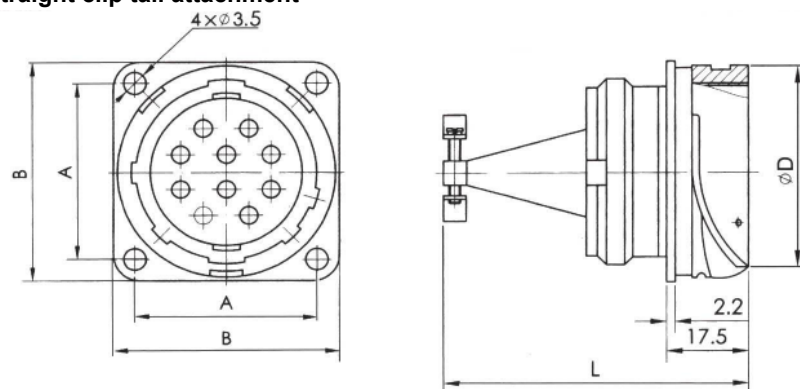
◎ Socket without tail accessories



contact- Combination number	size mm			quality/g	
	A	B	D	plug	socket
7-1	20	27	21	19	21
4-2				20	22
10-2	26	33	27	30	34
24-1	29	36	30	35	33
19-2				36	44
32-1	31	38	34	42	52
24-2				44	55
50-7	40	49	46	66	87
50-9	43	52	49	78	107
55-2				79	108

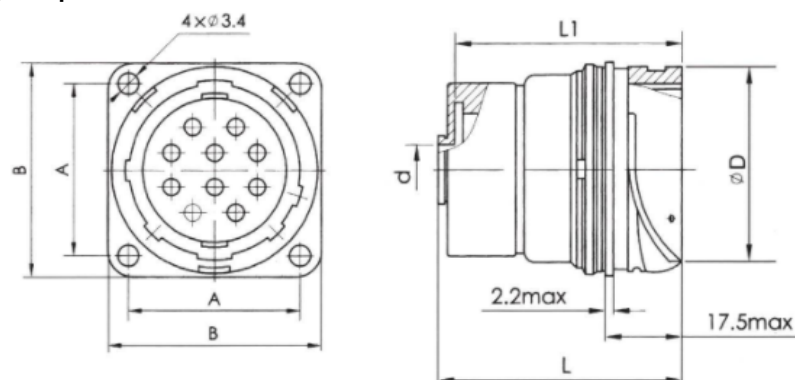
The PM4 series bayonet quick connects to the electrical connector

☉ Socket with straight clip tail attachment



Contact-Combination number	size(mm)			
	A	B	D	L
7-1	20	27	21	60
4-2	20	27	21	
10-2	26	33	27	
24-1	29	36	30	
19-2	29	36	30	
32-1	31	38	34	65
24-2				
50-7	40	49	46	70
50-9	43	52	49	
55-2	43	52	49	

☉ Socket with straight clip tail attachment

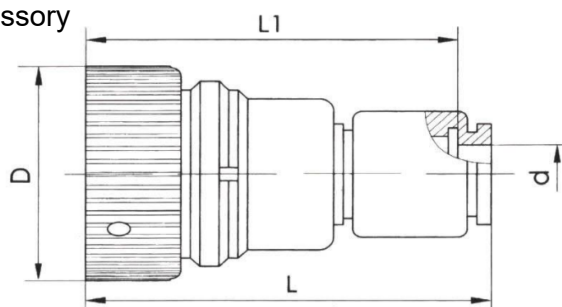


Contact-Combination number	size(mm)					
	A	B	D	d	L	L ₁
7-1	20	27	21	3	72	67
4-2	20	27	21	3	72	67
10-2	26	33	27	5	76	71
24-1	29	36	30	11.5	77	72
19-2	29	36	30	11.5	77	72
32-1	31	38	34	11.5	83	78
24-2	31	38	34	11.5	83	78
50-7	40	49	46	17.5	90	85
50-9	43	52	49			
55-2	43	52	49			

The PM4 series bayonet quick connects to the electrical connector

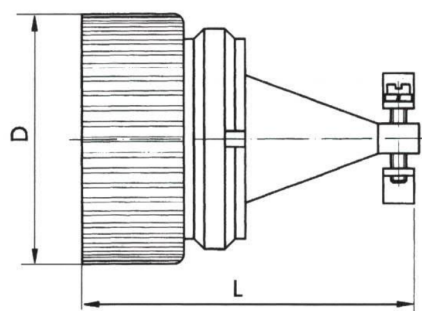
(二) Plug

- ⊙ Plug with sleeve tail accessory



Contact-Combination number	size mm				quality/ g	
	D	d	L	L1	plug	socket
7-1	25	3	72	67	38	40
4-2	26	3	72	67	39	41
10-2	32	5	76	71	56	61
24-1	35	11.5	77	72	74	79
19-2	35	11.5	77	72	75	81
32-1	39	11.5	83	78	83	94
24-2	39	11.5	83	78	84	97
50-7	51	17.5	90	85	143	163
50-9	54				152	185
55-2	54				153	186

- ⊙ Plug with straight clip tail accessory



Combination code	size mm	
	D	L
7-1	26	60
4-2		
10-2	32	
24-1	35	
19-2	35	
32-1	39	65
24-2		
50-7	51	70
50-9	54	
55-2	54	

The PM4 series bayonet quick connects to the electrical connector

The OHL-EC-1(2)-type electric connector is used in the DC and AC circuit, and the plug and socket are bayonet connection. Plug without tail attachment, socket with straight plastic tail attachment.

Localized models:OHS



Technical function

- ◎ Contact resistance: $\leq 5\text{m}\Omega$
- ◎ Insulation resistance: $\geq 1000\text{M}\Omega$
(Under normal conditions)
- ◎ Ambient temperature: $-60^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- ◎ Vibration: $1-5000\text{Hz} 20\text{g}$
- ◎ Shock: Once 1000g, Many times 100g
- ◎ Contact diameter: $\varnothing 1.0\text{mm}$

◎ Working current, working voltage:

Housing spec	No. of Contacts	Single contact Working current(A)	Total current(A)	working voltage(V)
10	4	3.7	15	250
12	7	3.1	22	250
14	10	3.0	30	250
18	19	2.1	40	250
22	32	1.8	60	250
27	50	1.5	75	250

Mechanical durability: mating cycles 250 times working hours:5000 hour

Warranty period:15 year Technical Parameters:БРО.364.030TY

Contact arrangement

Housing spec	10	12	14	18
No. of Contacts	4	7	10	19
Hole group arrangement				
Housing spec	22		27	
No. of Contacts	32		50	
Hole group arrangement				

The OHS series ultra-small electric connector

Marker instructions

Russia:

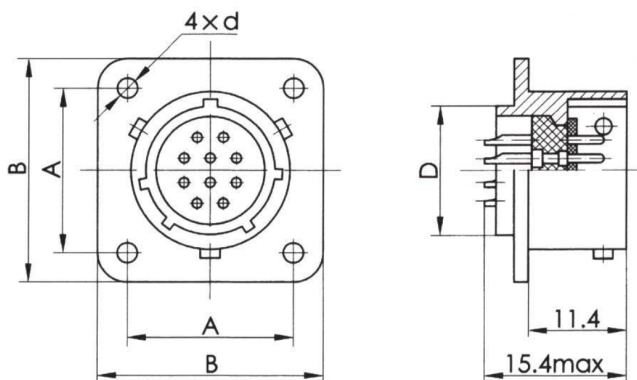
	O H	Ц	Б	C	1 (2)	4/10	B(P)	1(2)	1 (2,3)	B
O H	Ц	Б	C							
Ц										
Б										
C										
1 silver plating,2 gilding										
No. of Contacts/Housing spec										
B socket(Put in the needle)										
P plug(Fit into the hole)										
1.Without tail attachment										
2.With unshielded straight tail attachment										
Alignment mark										
Housing spec										

China:

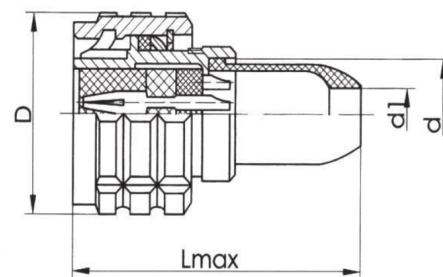
	O H	S	Б	C	1 (2)	4/10	B(P)	1(2)	1 (2,3)	B
O H	S	Б	C							
S										
Б										
C										
1silver plating,2 gilding										
No. of Contacts/Housing spec										
B socket(Put in the needle)										
P plug(Fit into the hole)										
1.Without tail attachment										
2.With unshielded straight tail attachment										
Alignment mark										
Housing spec										

Outline and Installation Dimension

Socket without tail accessories(Put in the needle)



Plug with tail attachment(Fit into the hole)



Housing spec	size mm				
	D	d	A	B	b
10	10	2.2	11.8	20	1.4
12	12	2.2	13.2	21	1.4
14	14	2.2	15	24	1.4
18	18	2.2	18	27	1.4
22	22	2.7	21.5	31	1.8
27	27	3.2	26	36	2

Housing spec	size mm			
	D	d	d 1	Lmax
10	20	M10×0.75	4.5	30
12	21	M12×0.75	6	31
14	24	M14×0.75	7	32
18	27	M18×0.75	9.2	33
22	31	M22×0.75	11	34
27	36	M27×0.75	13	36

The PC series ultra-small electric connector

The PC series subcompact circular electrical connectors are used for circuit electrical connections on radio and electrical equipment. Connect the cable plug to a socket fixed to the device through a threaded connection screw. The two devices can also be connected directly through the plug and socket installed on each device (docking).



The ultra-small circular electric connector is sealed, not sealed, with plugs and sockets with tail accessories. Socket pin, plug hole.

Localized models:PC

Technical function

- ◎ **Ambient temperature:** -60℃~+85℃
- ◎ **Vibration:** 5~2500Hz, PC15g, PCΓ18g
- ◎ **Shock:** PC Many times 50g
PCΓ Many times 100g
- ◎ **working voltage:** 200V
- ◎ **Contact resistance:** ≤5mΩ
- ◎ **Insulation resistance:** ≥1000MΩ
- ◎ **Insulation voltage strength:** 1000V mating
- ◎ **cycles:** 250 times
- ◎ **Warranty period:** 15 year
- ◎ **technical specifications:** 3E0 204 062JT

current load:

Contact diameter (mm)	No. of Contacts	Overall current load(A)
1/4		15
1/7		22
1/10		30
1/19		40
1/32		62
1/50		75

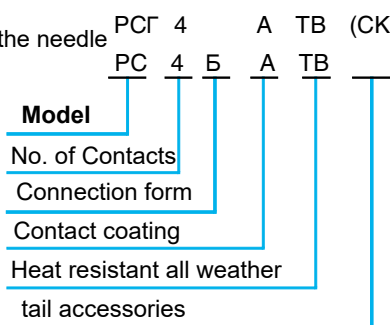
Marker instructions

sequence number		Code meaning	Russian code	China(Factory 117)code
China	Russia			
1	1	Model: Unsealed seal	PC PCΓ	PC PCM
2		Connector Type		socket; A plug; Not labeled
3	2	No. of Contacts	4, 7, 10, 19, 32, 50	4, 7, 10, 19, 32, 50
4	3	Connection form: Inline threaded	B Not labeled	G Not labeled
5	4	Contact coating: gilding silver plating	A Not labeled	A Not labeled
6		Connector Type		thrusting needle; J, jack; K
7	6	Tail attachment: With tail attachment Without tail attachment	(CK) Not labeled	WF Not labeled
8	5	Heat resistant all weather	TB	TB

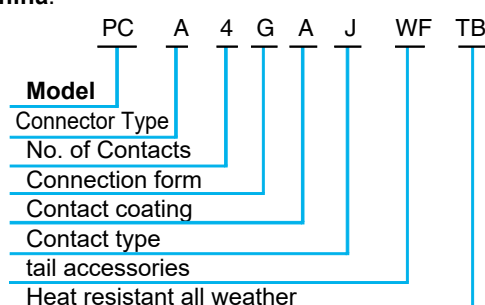
The PC series ultra-small electric connector

example:

Russia: Put in the needle PCГ 4 A TB (CK)

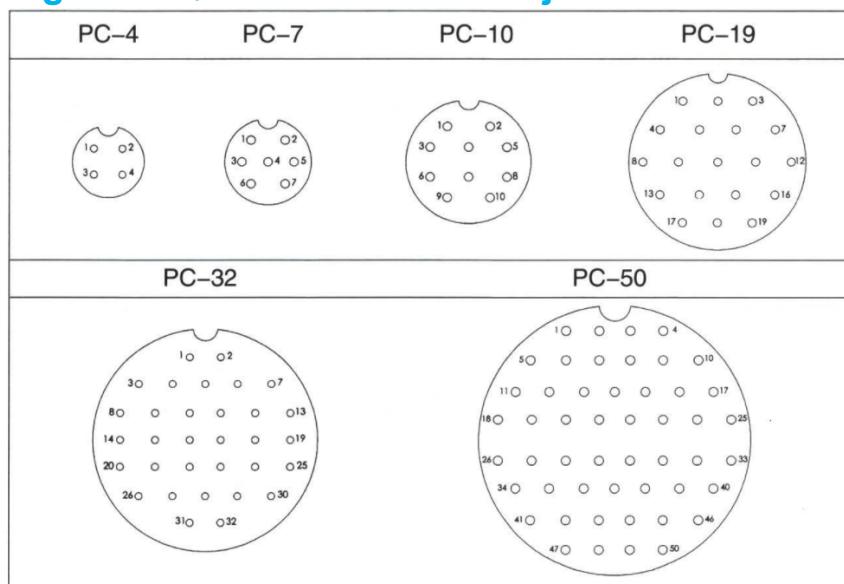


China: PCM 4 A J WF TB



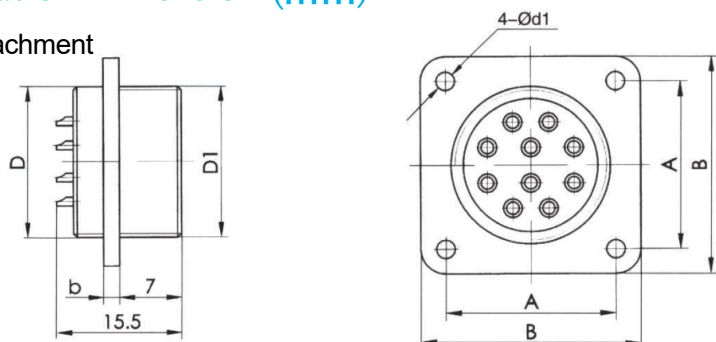
※ illustrate: When ordering original products made in Russia, Connection type must be declared (plug, socket), Contact type (Put in the needle, Fit into the hole) And whether it comes with a tail attachment

Contact arrangement (Look at it from the jack contact end)



Outline and Installation Dimension (mm)

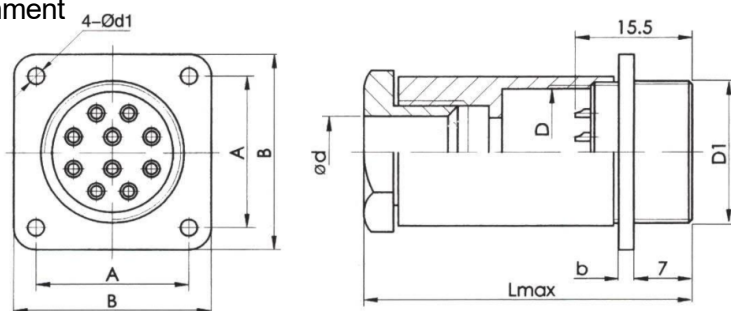
⊙ Socket without tail attachment



Hole group arrangement	D	D ₁	d1	A	B	b
PC-4	M10×0.75	M10×0.75	2.2	11.8±0.1	16.5	1.4
PC-7	M12×0.75	M12×0.75	2.2	13.2±0.1	18	1.4
PC-10	M14×0.75	M14×0.75	2.2	15±0.1	20	1.4
PC-19	M18×0.75	M18×1	2.2	18±0.1	24	1.4
PC-32	M22×0.75	M22×1	2.7	21.5±0.1	28	1.8
PC-50	M27×0.75	M27×1	3.2	26±0.1	33	2.0

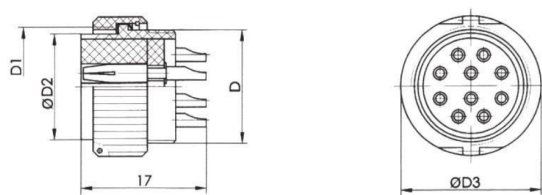
The PC series ultra-small electric connector

⊙ Socket with tail attachment



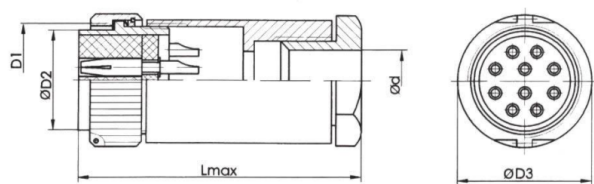
Hole group arrangement	D	D1	d	b	A	B	d1	Lmax
PC-4	M10×0.75	M10×0.75	6	1.4	11.8±0.1	16.5	2.2	35.6
PC-7	M12×0.75	M12×0.75	8	1.4	13.2±0.1	18	2.2	36
PC-10	M14×0.75	M14×0.75	9	1.4	15±0.1	20	2.2	41
PC-19	M18×0.75	M18×1	11	1.4	18±0.1	24	2.2	41
PC-32	M22×0.75	M22×1	13	1.8	21.5±0.1	28	2.7	43.3
PC-50	M27×0.75	M27×1	16	2.0	26±0.1	33	3.2	50

⊙ Cable plug without tail attachment



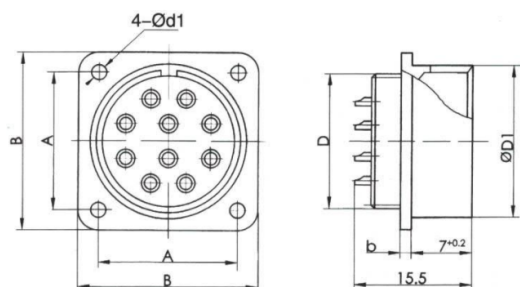
D	D1	D2	D3
M10×0.75	M10×0.75	8.2	13.8
M12×0.75	M12×0.75	10	16
M14×0.75	M14×0.75	12	17.7
M18×0.75	M18×1	15.5	22.3
M22×0.75	M22×1	19.5	26.3
M27×0.75	M27×1	24	31.1

⊙ Cable plug with tail attachment



D	D1	D2	D3	d	Lmax
M10×0.75	M10×0.75	8.2	13.8	6	36.5
M12×0.75	M12×0.75	10	16	8	38.3
M14×0.75	M14×0.75	12	17.7	9.2	41
M18×0.75	M18×1	15.5	22.3	11.2	41.5
M22×0.75	M22×1	19.5	26.3	13.2	42
M27×0.75	M27×1	24	31.1	16.2	50

⊙ Direct plug socket without tail attachment

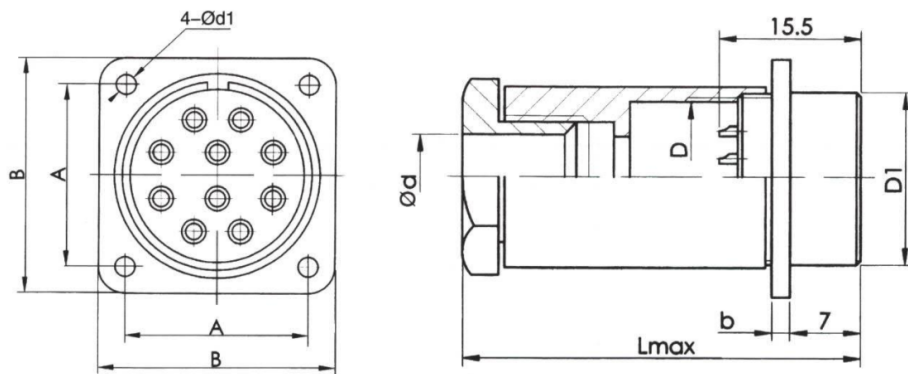


D	D ₁	d ₁	A	B	b
M10×0.75	11.5	2.2	11.8±0.1	16.5	1.4
M12×0.75	14	2.2	13.2±0.1	18	1.4
M14×0.75	16	2.2	15±0.1	20	1.4
M18×0.75	20.5	2.2	18±0.1	24	1.4
M22×0.75	24.5	2.7	21.5±0.1	28	1.8
M27×0.75	30	3.2	26±0.1	33	2.0

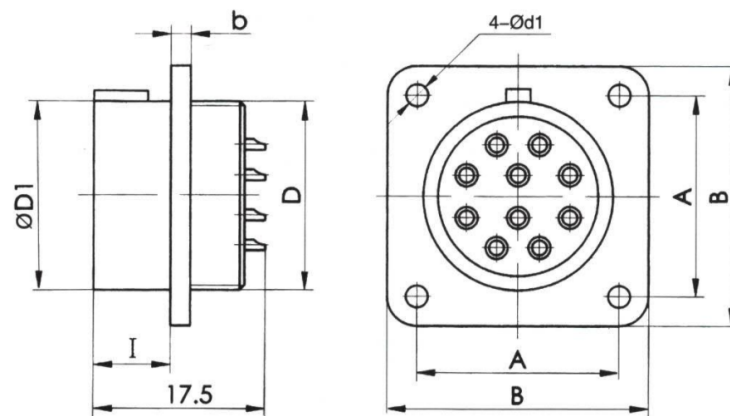
The PC series ultra-small electric connector

☉ Direct plug socket with tail attachment

Hole group arrangement	D	D1	d	b	A	B	d1	Lmax
PC-4	M10×0.75	M10×0.75	6	1.4	11.8±0.1	16.5	2.2	36
PC-7	M12×0.75	M12×0.75	8	1.4	13.2±0.1	18	2.2	38
PC-10	M14×0.75	M14×0.75	9	1.4	15±0.1	20	2.2	41
PC-19	M18×0.75	M18×1	11	1.4	18±0.1	24	2.2	43
PC-32	M22×0.75	M22×1	13	1.8	21.5±0.1	28	2.7	45
PC-50	M27×0.75	M27×1	16	2.0	26±0.1	33	3.2	50



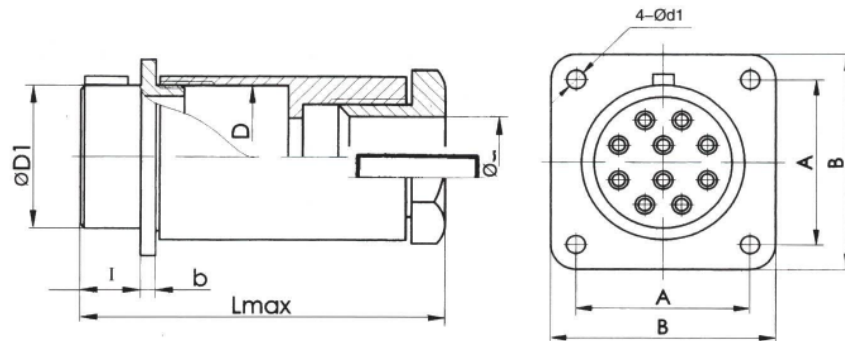
☉ Direct plug without tail attachment



D	D1	d1	A	B	b	I
M10×0.75	8.8	2.2	11.8±0.1	16.5	1.4	5.6
M12×0.75	10.7	2.2	13.2±0.1	18	1.4	5.6
M14×0.75	12.6	2.2	15±0.1	20	1.4	5.6
M18×0.75	16.2	2.2	18±0.1	24	1.4	5.6
M22×0.75	20.3	2.7	21.5±0.1	28	1.8	5.2
M27×0.75	24.8	3.2	26±0.1	33	2.0	5.7

The PC series ultra-small electric connector

◎ Straight plug with tail attachment



D	D ₁	d	d ₁	A	B	b	L _{max}	l
M10×0.75	8.8	6	2.2	11.8±0.1	16.5	1.4	36	7
M12×0.75	10.7	8	2.2	13.2±0.1	18	1.4	38	7
M14×0.75	12.6	9	2.2	15±0.1	20	1.4	40	7
M18×0.75	16.2	11	2.2	18±0.1	24	1.4	42	7
M22×0.75	20.3	13	2.7	21.5±0.1	28	1.8	44	7
M27×0.75	24.8	16	3.2	26±0.1	33	2.0	48	7

Example of domestic model of PC series thread products

Model	Connector type	Whether with tail attached	Contact type	Contact plating	No. of Contacts
PC4AKWFTB	plug	yes	jack	gilding	4
PC4KWFTB	plug	yes	jack	silver plating	4
PC4AKTB	plug	no	jack	gilding	4
PC4KTB	plug	no	jack	silver plating	4
PCA4AJWFTB	socket	yes	thrusting needle	gilding	4
PCA4JWFTB	socket	yes	thrusting needle	silver plating	4
PCA4AJTB	socket	no	thrusting needle	gilding	4
PCA4JTB	socket	no	thrusting needle	silver plating	4

Example of domestic model of PC series direct-insert products

Model	Connector type	Whether with tail attached	Contact type	Contact plating	No. of Contacts
PC4GAKWFTB	plug	yes	jack	gilding	4
PC4GKWFTB	plug	yes	jack	silver plating	4
PC4GAKTB	plug	no	jack	gilding	4
PC4GKTB	plug	no	jack	silver plating	4
PCA4GAJWFTB	socket	yes	thrusting needle	gilding	4
PCA4GJWFTB	socket	yes	thrusting needle	silver plating	4
PCA4GAJTB	socket	no	thrusting needle	gilding	4
PCA4GJTB	socket	no	thrusting needle	silver plating	4

ZH□□series high density ultra small electrical connector

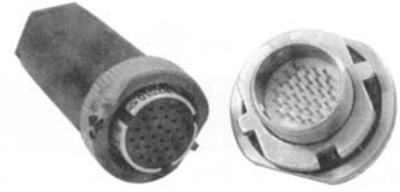
High density ultra-compact circular electrical connector CHL₁₃ CHL₁₄ CHL₄₂ for DC or AC pulse (less than 3MH₂) circuit connection.

How the socket is installed on the instrument:

CHL₁₃ — Fusion welding

CHL₁₄ — nut CHL₄₂ — braze

Localized models: ZH13, ZH14, ZH42



Technical Parameters

- ⊙ Ambient temperature: -60°C~+85°C
- ⊙ Vibration: 1-5000H_z 40g
- ⊙ Shock: Once 1500g Many times 150g
- ⊙ Contact resistance: CHL₁₃ CHL₁₄ CHL₄₂ ≤45mΩ
CHL₁₃ (pierce through a wall) ≤90mΩ
- ⊙ Insulation resistance: ≥5000MΩ (Under normal conditions)
- ⊙ working voltage: 140V
- ⊙ current load: Single contact current 2A
- ⊙ sealing pressure: 460MPa
- ⊙ Mechanical durability: 250 working hours: ≥2000 h
- ⊙ Warranty period: 15 year Technical Parameters: GEO.364.245TV Technical specifications: 3E0 240 070JT

Marker instructions

Russia: C H L 13,14,42	10/10	B(PH)	1(2,6,11)	a (Б В Г Д е) B	China: ZH13(14,42)	10/10	B(P,H)	1(2,6,7,11)	a (b,c,d,e) B
Model					Model				
No. of Contacts					No. of Contacts1				
10,19,30,50,76,102					0,19,30,50,76,102				
Housing standard dimensions					Housing standard dimensions				
10,12,14,18,22,27					10,12,14,18,22,27				
B-Put in the needle(socket)					B-Put in the needle(socket)				
P-Fit into the hole(plug)					P-Fit into the hole(plug)				
П Adaptor					H Adaptor				
1-Socket without tail attachment 2-Socket with straight tail attachment 6-Plug with straight tail attachment 11-Plug without tail attachment					1-Socket without tail attachment, 2-Socket with straight tail attachment 6-Plug with straight tail attachment 7-Plug with straight clip tail attachment 11-Plug without tail attachment				
Alignment mark					Alignment mark				
All weather					All weather				

illustrate: CHL₁₃ CHL₁₄ Standard housing spec 10,12,14,18,22,27
CHL₄₂ Standard housing spec 10,12,14
CHL₁₃ convert(pierce through a wall) Standard housing spec 27

Contact arrangement(From the mating surface of the socket insulator)

Housing spec	10	12	14	18	22	27
Contact distribution diagram						
Contact diameter	φ 0.6mm			Thrusting needle nickeling		jack gilding
No. of Contacts	10	19	30	50	76	102

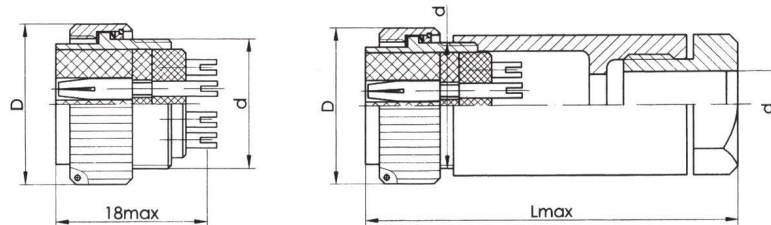
ZH□□series high density ultra small electrical connector

Outline and Installation Dimension

⊙ Plug(Fit into the hole)CHL₁₃

No tail attached

With tail attached

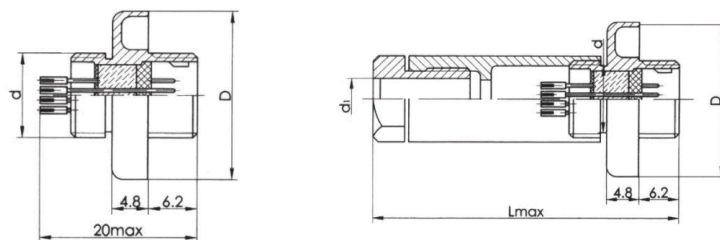


Housing spec	size (mm)			
	d	d1	D	Lmax
10	M10×0.75	6	14	36
12	M12×0.75	8	16	38
14	M14×0.75	9	18	41
18	M18×1.0	11	22.5	43
22	M22×1.0	13	26.5	45
27	M27×1.0	16	31.5	49

⊙ Socket(Put in the needle)CHL₁₃

No tail attached

With tail attached

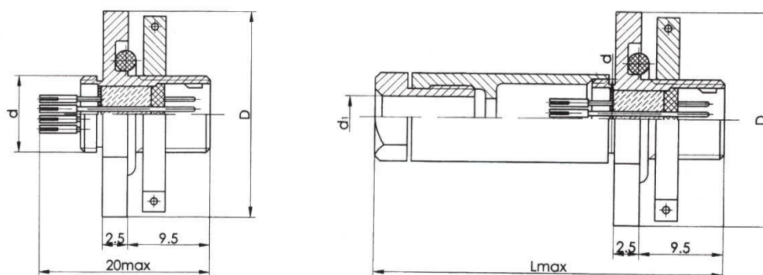


Housing spec	size(mm)			
	d	d1	D	Lmax
10	M10×0.75	6	17	40
			22	
12	M12×0.75	8	19	42
			24	
14	M14×0.75	9	25	45
18	M18×1.0	11	29	47
22	M22×1.0	13	33	49
27	M27×1.0	16	38	54

⊙ Socket(Put in the needle)CHL₁₄

No tail attached

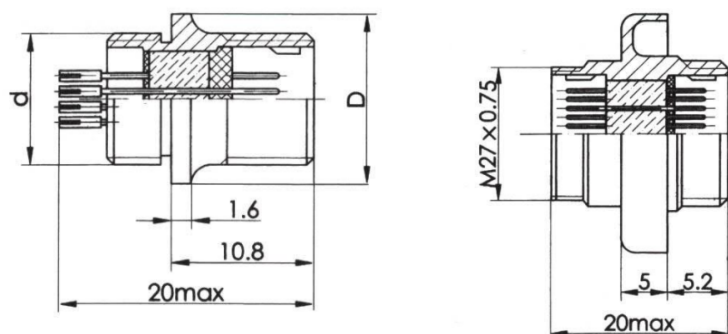
With tail attached



Housing spec	size(mm)			
	d	d1	D	Lmax
10	M10×0.75	6	22	40
12	M12×0.75	8	24	42
14	M14×0.75	9	25	45
18	M18×1.0	11	29	47
22	M22×1.0	13	33	49
27	M27×1.0	16	38	54

⊙ SocketCHL₄₂(Put in the needle)

⊙ Transfer socket CHL₁₃-102/27

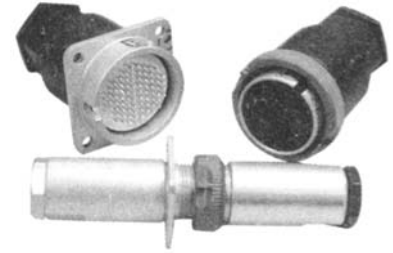


Housing spec	size(mm)	
	d	D
10	M10×0.75	12.5
12	M12×0.75	14.5
14	M14×0.75	16.5
18	M18×1.0	
22	M22×1.0	
27	M27×1.0	

MP1 series micro electric connector

The MP1 miniature circular electric connector is sealed and can be used in circuits below 3MHz, current strength 5a and operating voltage 140 v.

Localized models:MP1



Technical function

- ⊙ **Ambient temperature:** -60℃~+150℃
- ⊙ **Vibration:** 1~2500Hz 15g
- ⊙ **Shock:** Many times 35g
- ⊙ **working voltage:** 140V
- ⊙ **Contacts Working current:** 0.5A
- ⊙ **Insulation resistance:** ≥ 1000MΩ Ordinary temperature
≥ 20MΩ high temperature
≥ 1MΩ high humidity
- ⊙ **Contact resistance:** ≤ 10mΩ
- ⊙ **Mechanical durability:** mating cycles 250 times
- ⊙ **Warranty period:** 15 years
- ⊙ **Technical specifications:** 3E0 204 061JT

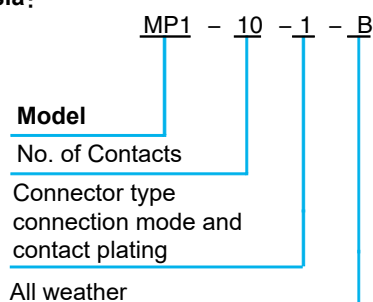
No. of Contacts	Total current load(A)	No. of Contacts	Total current load(A)
10	5	50	25
19	9.5	76	38
30	15	102	51

Marker instructions

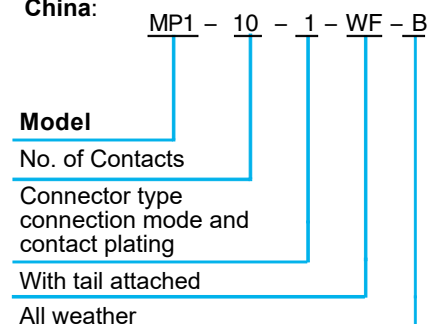
sequence number	Code meaning	Russian code	China(Factory117)code
1	Model	MP1	MP1
2	No. of Contacts	10、19、30、50、76、102	10、19、30、50、76、102
3	Threaded connection socket -Contact plating	1-silver plating 2-gilding	1-silver plating 2-gilding
	Direct insertion connection socket -Contact plating	3-silver plating 4-gilding	3-silver plating 4-gilding
	Threaded connection cable plug -Contact plating	5-silver plating 6-gilding	5-silver plating 6-gilding
	Direct insertion connection cable plug -Contact plating	7-silver plating 8-gilding	7-silver plating 8-gilding
4	With tail attached		WF
5	All weather	B	

example:

Russia:

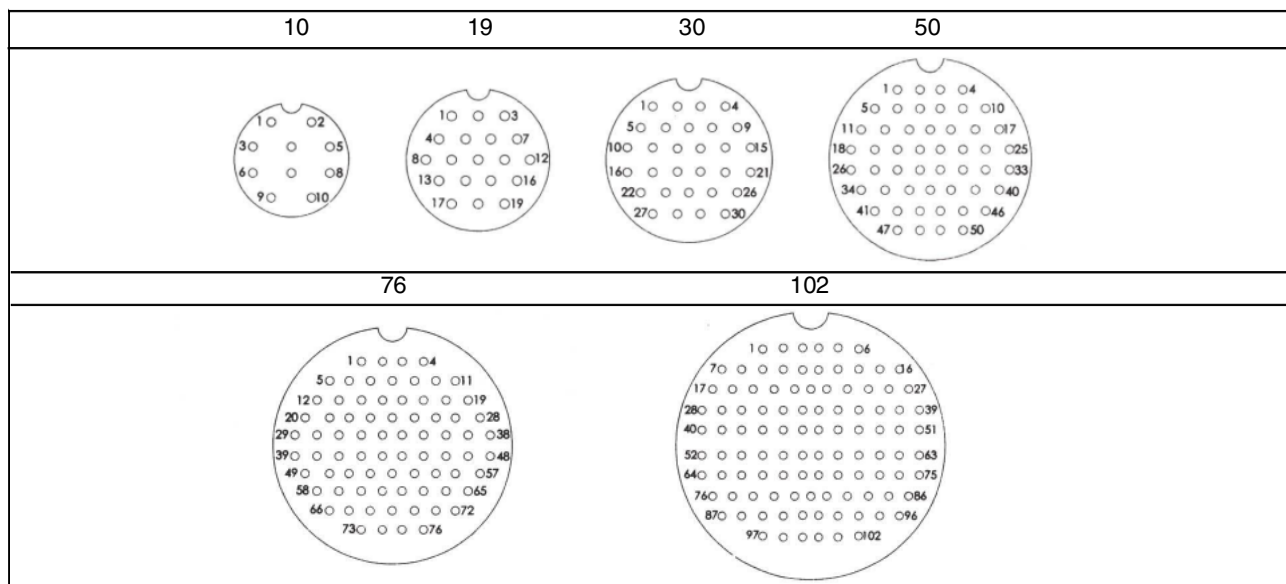


China:



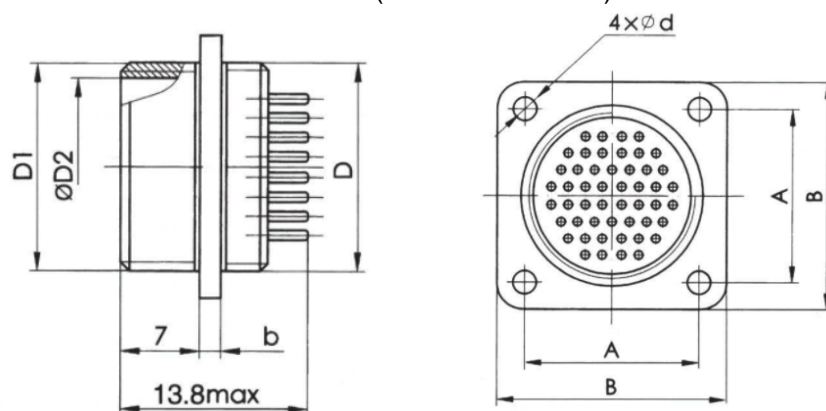
MP1 series micro electric connector

Contact arrangement (Look at it from the jack contact end)



Outline and Installation Dimension

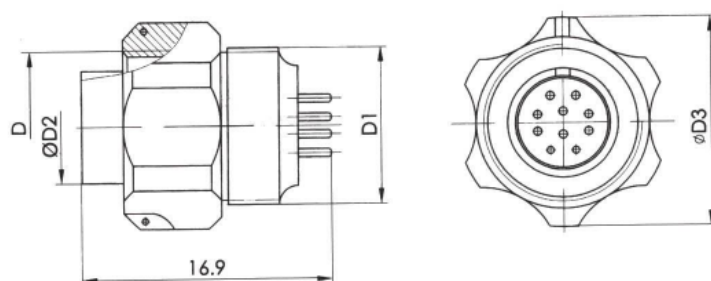
- ⊙ Threaded connection no tail attached socket (Put in the needle)



sequence number	Model	size(mm)						
		A	B	D	D1	D2	d	b
1	MP1-10-1-B	11.8	16.5	M10×0.75	M10×0.75	8.3	2.2	1.4
	MP1-10-2-B							
2	MP1-19-1-B	13.2	18.0	M12×0.75	M12×0.75	10.0	2.2	1.4
	MP1-19-2-B							
3	MP1-30-1-B	15.0	20.0	M14×0.75	M14×0.75	12.0	2.2	1.4
	MP1-30-2-B							
4	MP1-50-1-B	18.0	24.0	M18×0.75	M18×1	15.5	2.2	1.4
	MP1-50-2-B							
5	MP1-76-1-B	21.5	28.0	M22×0.75	M22×1	19.5	2.7	1.8
	MP1-76-2-B							
6	MP1-102-1-B	26.0	33.0	M27×0.75	M27×1	24.0	3.2	2.0
	MP1-102-2-B							

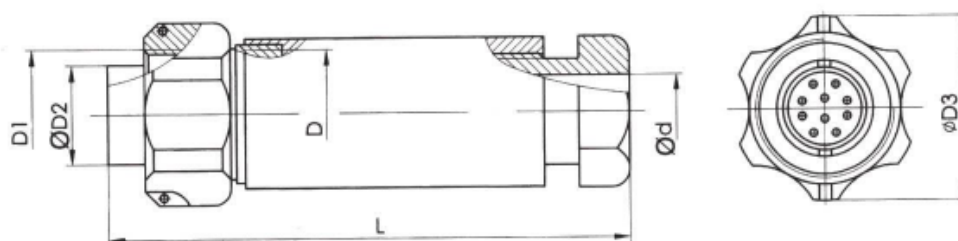
MP1 series micro electric connector

- Threaded connection no tail attached plug (Fit into the hole)



sequence number	Model	size(mm)			
		D	D ₁	D ₂	D ₃
1	MP1-10-5-B	M10×0.75	M10×0.75	8.2	13.8
	MP1-10-6-B				
2	MP1-19-5-B	M12×0.75	M12×0.75	10.0	16.0
	MP1-19-6-B				
3	MP1-30-5-B	M14×0.75	M14×0.75	12.0	18.5
	MP1-30-6-B				
4	MP1-50-5-B	M18×1	M18×0.75	15.5	23.0
	MP1-50-6-B				
5	MP1-76-5-B	M22×1	M22×0.75	19.5	26.3
	MP1-76-6-B				
6	MP1-102-5-B	M27×1	M27×0.75	24.0	28.7
	MP1-102-6-B				

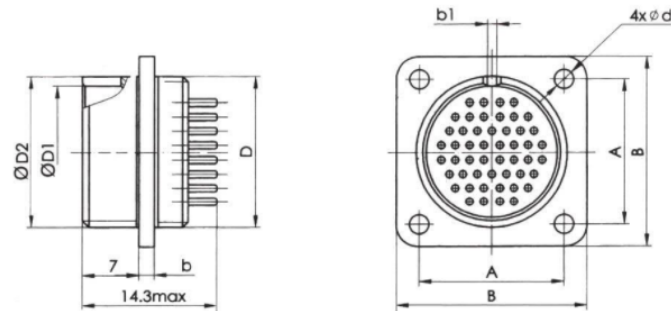
- Threaded connection with tail attached plug (Fit into the hole)



sequence number	Model	size(mm)					
		D	D ₁	D ₂	D ₃	d	L
1	MP1-10-5-WF-B	M10×0.75	M10×0.75	8.2	13.8	6	36
	MP1-10-6-WF-B						
2	MP1-19-5-WF-B	M12×0.75	M12×0.75	10.0	16.0	8	38
	MP1-19-6-WF-B						
3	MP1-30-5-WF-B	M14×0.75	M14×0.75	12.0	18.5	9	41
	MP1-30-6-WF-B						
4	MP1-50-5-WF-B	M18×0.75	M18×1	15.5	23.0	11	41.5
	MP1-50-6-WF-B						
5	MP1-76-5-WF-B	M22×0.75	M22×1	19.5	26.3	13	42
	MP1-76-6-WF-B						
6	MP1-102-5-WF-B	M27×0.75	M27×1	24.0	28.7	16	50
	MP1-102-6-WF-B						

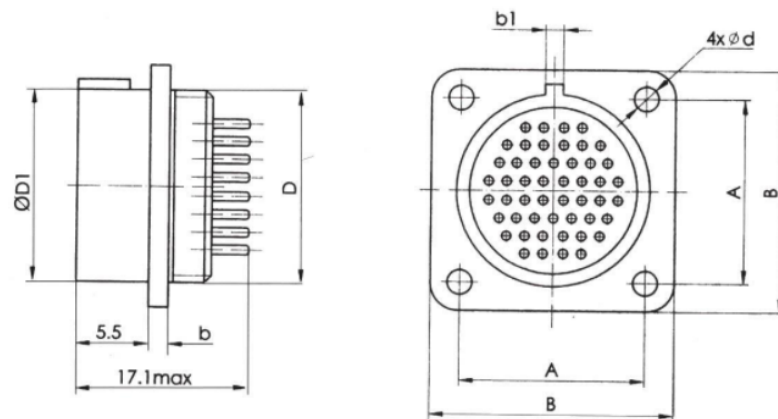
MP1 series micro electric connector

- ④ Direct insertion connection(With square plate)no tail attached socket(Put in the needle)



sequence number	Model	size(mm)							
		A	B	D	D1	D2	d	b	b ₁
1	MP1-10-3-B MP1-10-4-B	11.8	16.5	M10×0.75	9.0	11.5	2.2	1.4	2.0
2	MP1-19-3-B MP1-19-4-B	13.2	18.0	M12×0.75	11.0	14.0			2.5
3	MP1-30-3-B MP1-30-4-B	15.0	20.0	M14×0.75	13.0	16.0			
4	MP1-50-3-B MP1-50-4-B	18.0	24.0	M18×0.75	16.5	20.5	2.2	1.4	2.5
5	MP1-76-3-B MP1-76-4-B	21.5	28.0	M22×0.75	20.5	24.5	2.7	1.8	3
6	MP1-102-3-B MP1-102-4-B	26.0	33.0	M27×0.75	25.0	30.0	3.2	2.0	3.5

- 5、Direct insertion connection(With square plate)no tail attached plug(Fit into the hole)



sequence number	Model	size (mm)						
		A	B	D	D1	d	b	b1
1	MP1-10-7-B MP1-10-8-B	11.8	16.8	M10×0.15	8.8	2.2	1.4	1.4
2	MP1-19-7-B MP1-19-8-B	13.2	18.0	M12×0.15	10.7	2.2	1.4	1.4
3	MP1-30-7-B MP1-30-8-B	15.0	20.0	M14×0.15	12.6	2.2	1.4	1.4
4	MP1-50-7-B MP1-50-8-B	18.0	24.0	M18×0.75	16.2	2.2	1.5	1.5
5	MP1-76-7-B MP1-76-8-B	21.5	28.0	M22×0.75	20.3	2.7	1.8	1.8
6	MP1-102-7-B MP1-102-8-B	26.0	33.0	M27×0.75	24.8	3.2	2.0	2.0

MP1 series micro electric connector

MP1 series product model number

Threaded connection		
	socket	plug
No tail attached	MP1-(10, 19, 30, 50, 76, 102)-1-B	MP1-(10, 19, 30, 50, 76, 102)-5-B
No tail attached	MP1-(10, 19, 30, 50, 76, 102)-2-B	MP1-(10, 19, 30, 50, 76, 102)-6-B
With tail attached	MP1-(10, 19, 30, 50, 76, 102)-1-WF-B	MP1-(10, 19, 30, 50, 76, 102)-5-WF-B
With tail attached	MP1-(10, 19, 30, 50, 76, 102)-2-WF-B	MP1-(10, 19, 30, 50, 76, 102)-6-WF-B

Direct insertion connection		
	socket	plug
No tail attached	MP1-(10, 19, 30, 50, 76, 102)-3-B	MP1-(10, 19, 30, 50, 76, 102)-7-B
No tail attached	MP1-(10, 19, 30, 50, 76, 102)-4-B	MP1-(10, 19, 30, 50, 76, 102)-8-B
With tail attached	MP1-(10, 19, 30, 50, 76, 102)-3-WF-B	MP1-(10, 19, 30, 50, 76, 102)-7-WF-B
With tail attached	MP1-(10, 19, 30, 50, 76, 102)-4-WF-B	MP1-(10, 19, 30, 50, 76, 102)-8-WF-B

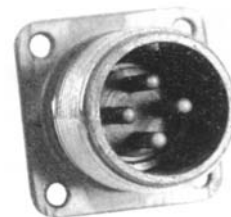
PPH25M Series temperature compensation power connector

PPH25M,PPH25AM Temperature compensation power connector is used in the thermocouple and DC circuit.

Socket (connecting device part) with straight or curved unshielded tail accessories or without tail accessories.

Plug head (connected to the cable part) with straight or curved non-shielded tail accessories

Localized models:PPH25M



Technical function

- ⊙ Ambient temperature PPH25M-60℃~+200℃
PPH25AM-60℃~+150℃
- ⊙ Vibration:1~600Hz 10g
- ⊙ Shock:Many times 12g
- ⊙ Contact resistance:≤50mΩ
- ⊙ Insulation resistance:≥1000MΩ
- ⊙ AC voltage(V):400
- ⊙ working hours:PPH25M≥600 小时,PPH25AM≥1000 hour
- ⊙ mating cycles:200 times
- ⊙ Warranty period:12 year
- ⊙ Technical Parameters:TEO.364.106TY
- ⊙ technical specifications:3E0 204 081JT

Marker instructions

Russia:

PPH25M- 4/1.3X 2.4A-18 Ш 1 B Put in the needle
PPH25M- 4/1.3X 2.4A-18 Г 7 B Fit into the hole

Model

No. of Contacts/Contact material
1.3 Nickel chromium(X),2.4 Nickel Copper(K)

Contact combination code

Ш-Put in the needle Г-Fit into the hole

1-without tail accessory socket;2-socket with a straight, unshielded tail attachment 4-socket with a curved, unshielded tail attachment;7-plug with a straight, unshielded tail attachment;9-with a curved, unshielded tail attachment

All weather

China:

PPH25M-4 - 18 K 7 B 1.3X 2.4A

Model

No. of Contacts

Contact combination code

K-Fit into the hole

Г-Put in the needle

1-without tail accessory socket;2-socket with a straight, unshielded tail attachment 4-socket with a curved, unshielded tail attachment;7-plug with a straight, unshielded tail attachment;9-with a curved, unshielded tail attachment

All weather

Contact material 1.3 Nickel chromium(X),2.4 Nickel silicon(A)

Contact arrangement

Code meaning:Housing spec-No. of Contacts-Contact code-material

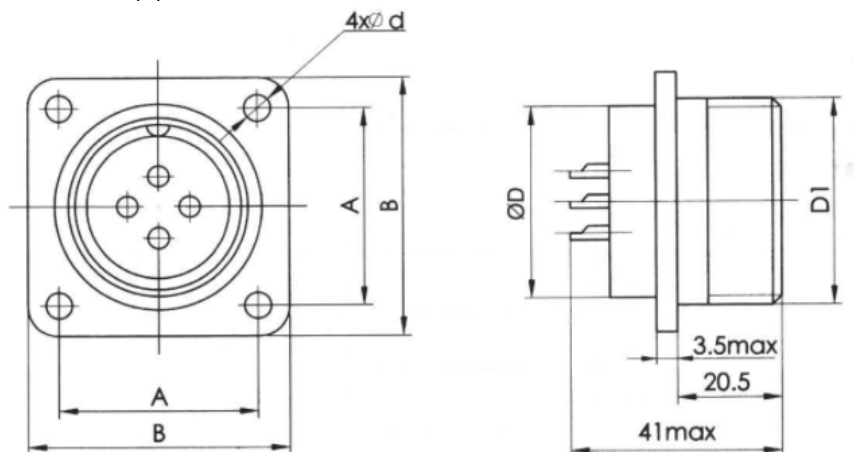
18-4 (1.3X,2.4K)	18-4 (1.3X,2.4A)	28-7 (1-3X,4-7K)	28-7 (1-3X,4-7A)	48-20 (1-10X,11-20XA)
48-26 (1-4X,5-26A)	60-47 (1-23X,24-47A)	60-47 (1-35X,36-47A)		
			● X-Nickel chromium	
			● K-Nickel Copper	
			○ A-Nickel silicon	

illustrate:Contact diameter 2.5mm

PPH25M Series temperature compensation power connector

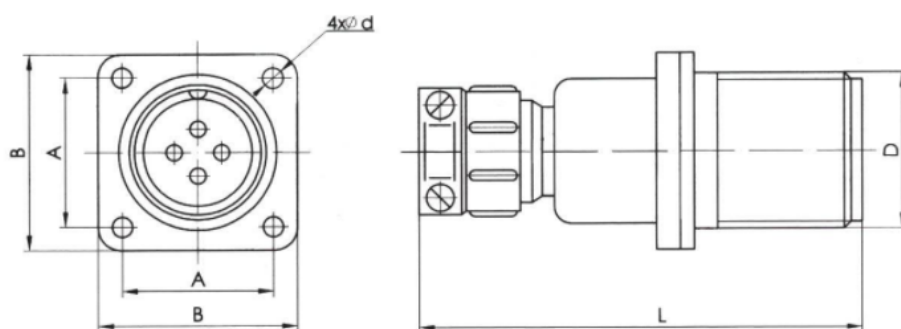
Outline and Installation Dimension

- ⊙ No tail attached socket(1)



housing size-No. of Contacts (Contact material and number)	size				
	A	B	D	D ₁	d
20-4(1-3X,2-4K)	22	30	20	M24×1.5	3.2
20-4(1-3X,2-4A)					
28-7(1-3X,4-7K)					
28-7(1-3X,4-7A)	30	38	28	M33×1.5	3.5
48-20(1-10X,11-20A)					
48-26(1-3X,5-26A)					
60-47(1-23X,24-47A)	54	68	60	M64×1.5	4.5
60-47(1-35X,36-47A)					

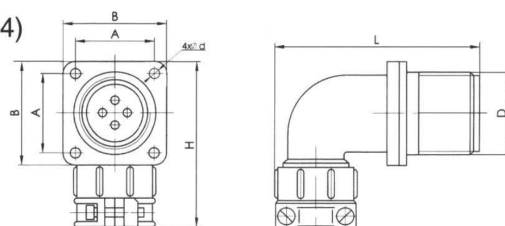
- ⊙ A socket with a straight, unshielded tail attachment(2)



housing size-No. of Contacts (Contact material and number)	size(mm)				
	D	A	B	Lmax	d
20-4(1-3X,2-4K)	M24×1.5	22	30	75	3.2
20-4(1-3X,2-4A)					
28-7(1-3X,4-7K)					
28-7(1-3X,4-7A)	M33×1.5	30	38	82	3.5
48-20(1-10X,11-20A)					
48-26(1-3X,5-26A)					
60-47(1-23X,24-47A)	M64×1.5	54	68	89	4.5
60-47(1-35X,36-47A)					

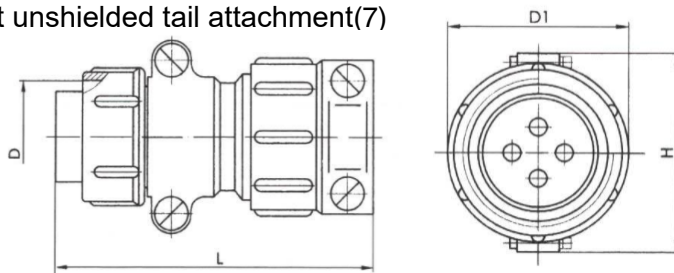
PPH25M Series temperature compensation power connector

⊙ Socket with a curved, unshielded tail attachment (4)



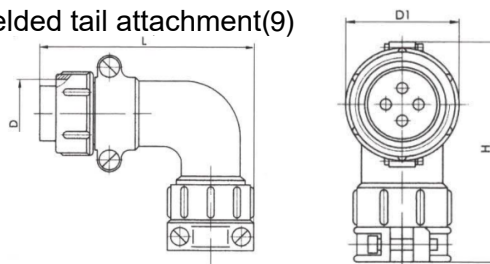
Housing dimension-No. of Contacts (Contact body number and material)	size(mm)					
	D	A	B	Lmax	Hmax	d
18-4(1-3X,2-4K)	M24×1.5	22	30	71	62	3.2
18-4(1-3X,2-4A)						
28-7(1-3X,4-7K)						
28-7(1-3X,4-7A)	M33×1.5	30	38	83	76	3.5
48-20(1-10X,11-20A)						
48-26(1-3X,5-26A)	M52×1.5	58	58	99	96	4.5
60-47(1-23X,24-47A)						
60-47(1-35X,36-47A)						
	M64×1.5	68	68	110	106	4.5

⊙ Cable plug with straight unshielded tail attachment(7)



Housing dimension-No. of Contacts (Contact body number and material)	size(mm)			
	D	D ₁	Hmax	Lmax
18-4(1-3X,2-4K)	M24×1.5	29.5	36	64
18-4(1-3X,2-4A)				
28-7(1-3X,4-7K)				
28-7(1-3X,4-7A)	M33×1.5	38.5	48	70
48-20(1-10X,11-20A)				
48-26(1-3X,5-26A)	M52×1.5	59.5	68	80
60-47(1-23X,24-47A)				
60-47(1-35X,36-47A)				
	M64×1.5	72.5	80	78

⊙ Cable plug with curved unshielded tail attachment(9)



Housing dimension-No. of Contacts (Contact body number and material)	size(mm)			
	D	D ₁	Hmax	Lmax
18-4(1-3X,2-4K)	M24×1.5	29.5	71	64
18-4(1-3X,2-4A)				
28-7(1-3X,4-7K)				
28-7(1-3X,4-7A)	M33×1.5	38.5	86	80
48-20(1-10X,11-20A)				
48-26(1-3X,5-26A)	M52×1.5	59.5	105	98
60-47(1-23X,24-47A)				
60-47(1-35X,36-47A)				
	M64×1.5	72.5	118	113

The WM-type electrical connector

The WM-type electrical connector circuits between electrical accessories for aviation electrical instruments comply with the Russian technical standards for electrical connectors.



Localized models:WM

Technical function

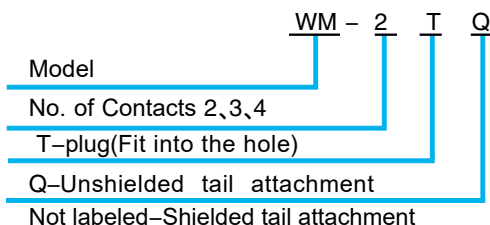
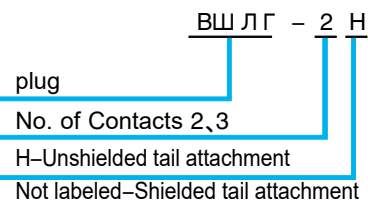
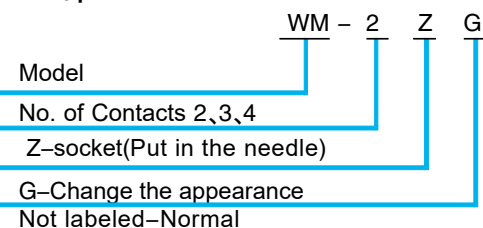
- ◎ **Ambient temperature:** -60°C~+150°C
- ◎ **Vibration:** frequency 20~80Hz, acceleration 10g
- ◎ **voltage rating:** 36V
- ◎ **Current rating:** 5A
- ◎ **Contact resistance:** before mating cycles $\leq 0.004\Omega$ mating cycles after 200 times $\leq 0.006\Omega$
- ◎ **Insulation resistance:** $\geq 50M\Omega$
- ◎ **Testing voltage:** 500V
- ◎ **Sealing socket airtightness:** pressure 850mmHg Seal
- ◎ **Technical specifications:** 3E0 240 058JT

Marker instructions

Russia:

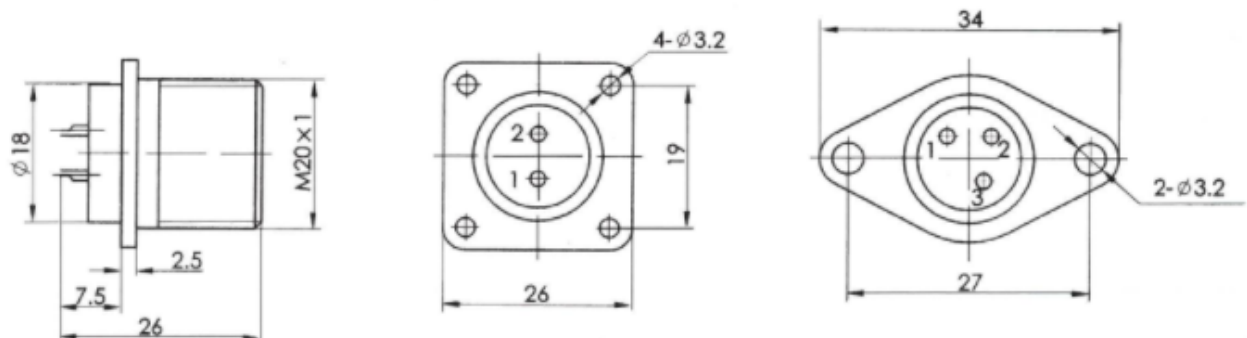


China:



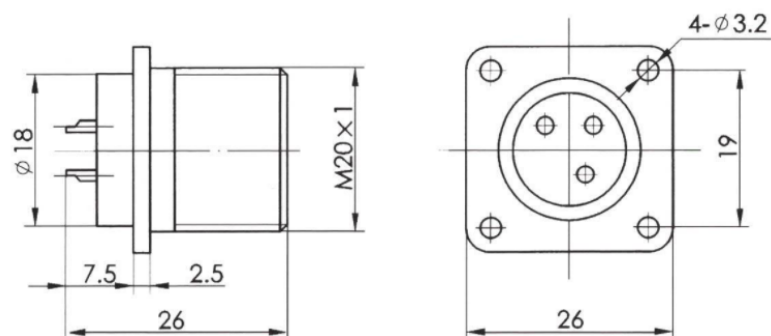
Outline and Installation Dimension

sealed socket

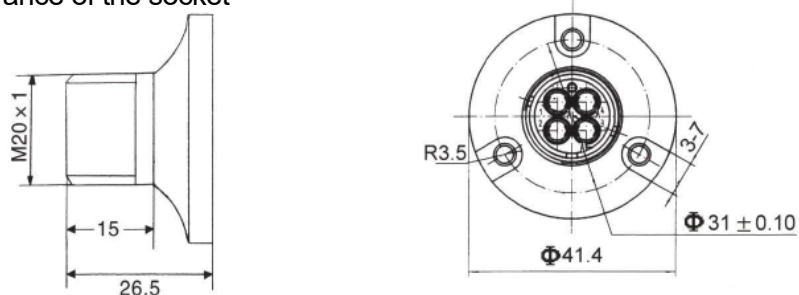


The WM-type electrical

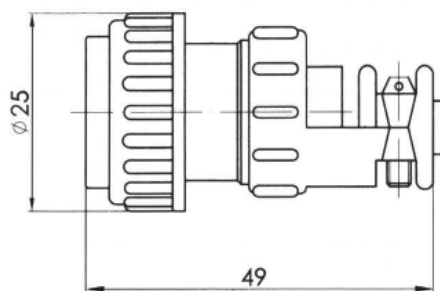
sealed socket



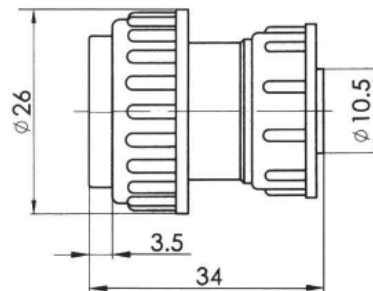
Change the appearance of the socket



Unshielded plug



Shielded plug



Contact arrangement

plug	socket	contact sum	contact array
ВШЛГ-2(Н)	ШПЛМ-2	2	
ВШЛГ-3(Н)	ШПЛМ-3	3	
WM-4T(Q)	WM-4ZG	4	

X-series connector

This product meets the requirements of Q/3E 20006-2003, corresponding to the Russian main belt code 2PM,2PMГ the isoelectric connector ГЯО.364.020TY technical conditions widely used in aviation weapons, reliable connection and disconnected electrical equipment and radio road in other military and civilian fields.



Technical function

- ◎ **Ambient temperature:** -55℃~+100℃ Glass sealed socket -55℃~-200℃
- ◎ **Humidity:** 40℃ Availabl per hour 98%
- ◎ **Atmospheric pressure:** 0.6KPa~505.4KPa
- ◎ **Vibration:** frequency 10~5000Hz, acceleration 50g
- ◎ **Shock:** acceleration 100g
- ◎ **Constant acceleration:** 490m/s²
- ◎ **voltage rating:** 560V

Current rating and Contact resistance

Contact couple diameter (mm)	Φ1.0	Φ1.5	Φ2	Φ3
Contact resistance (Ω)	≤0.005	≤0.0025	≤0.0016	≤0.0008
Current rating (A)	5	10	20	40

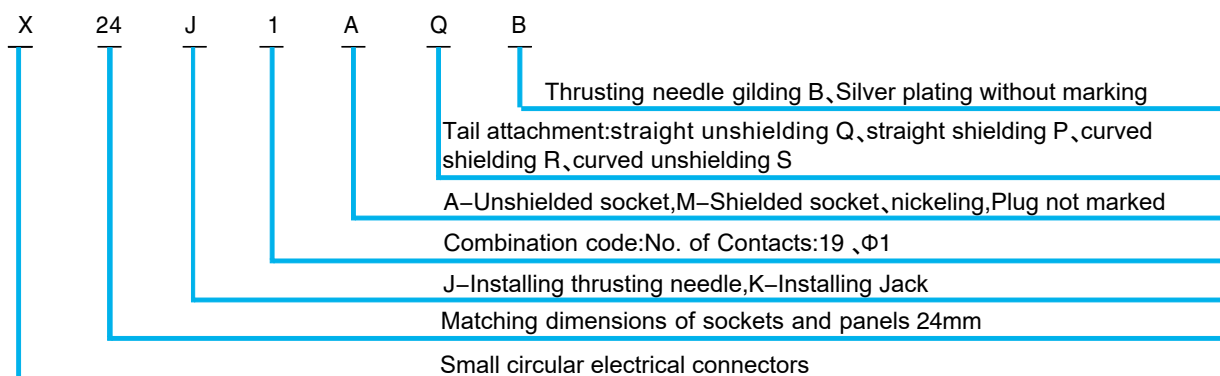
200V(0.6KPa)

mark: The contact resistance of the sealed plug socket shall not exceed three times the specified value above

- ◎ **Insulation resistance:** ≥1000MΩ(Ordinary temperature)
≥20MΩ(damp heat)
- ◎ **Airtightness:** Pressure difference between internal and external media 151.9KPa
- ◎ **Mechanical durability:** mating cycles 500 times

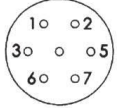
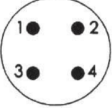
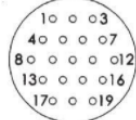
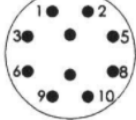
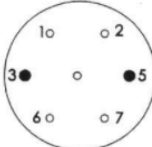
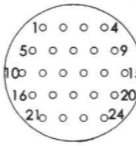
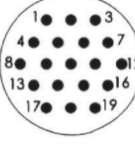
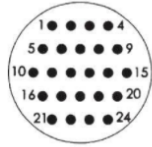
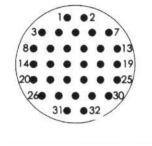
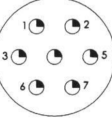
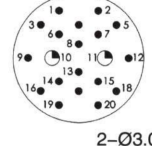
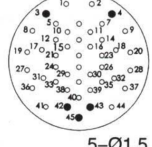
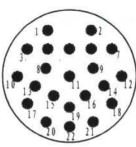
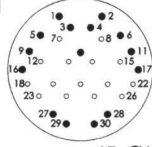
Marker instructions

example:



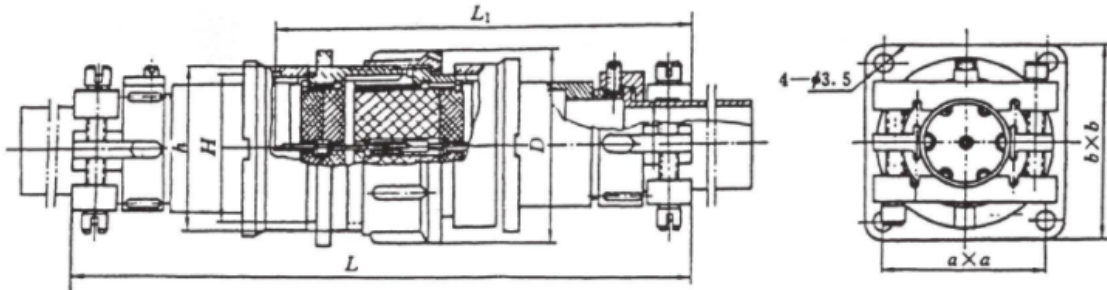
X-series connector

Contact arrangement

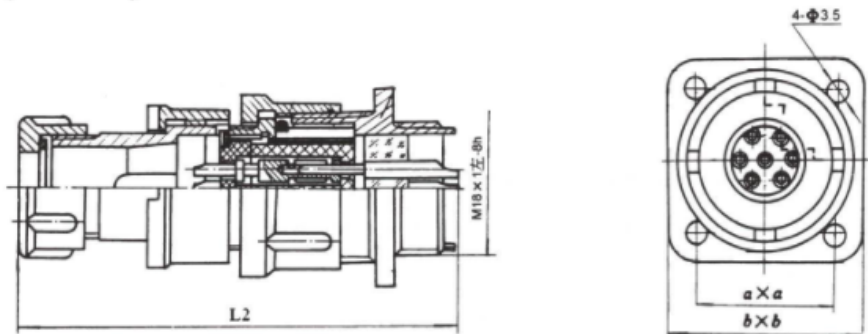
14	14-2  4-Ø1.0	14/4/1			
18	18-1  7-Ø1.0	18/7/1	18-2  4-Ø1.5	18/4/5	
24	24-1  19-Ø1.0	24/19/1	24-2  10-Ø1.5	24/10/5	
27	27-1  5-Ø1.0 2-Ø1.5	27/7/2	27-2  24-Ø1.0	27/24/1	27-3  19-Ø1.5
30	30-3  24-Ø1.5	30/24/5			
33	33-3  32-Ø1.5	33/32/5	33-4  7-Ø3.0	33/7/9	
36	36-3  2-Ø3.0 18-Ø1.5	36/20/6			
39	39-1  5-Ø1.5 40-Ø1.0	39/45/2	39-2  22-Ø1.5	39/22/5	
42	42-1  15-Ø1 15-Ø1.5	42/30/2			

Outline and Installation Dimension

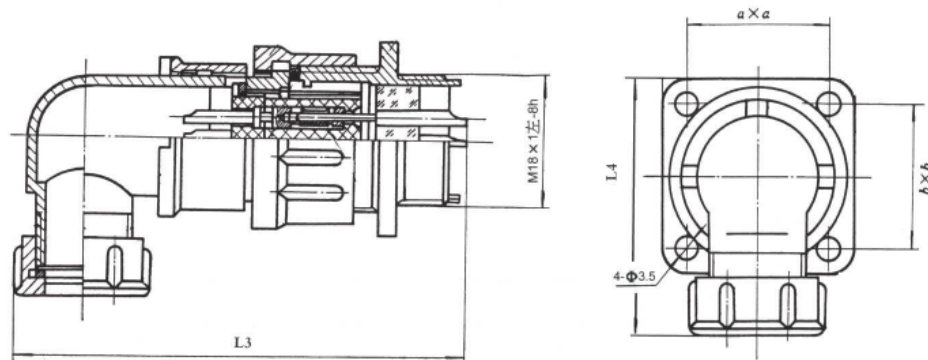
☉ Unsealed cable plug seat(straight unshielding)



☉ Sealed cable plug seat (straight shielding)



☉ Sealed cable plug seat (curved shielding)



Housing spec		14	18	22	24	27	30	33	36	39	42	45
Outline and Installation Dimension	H	14	18	22	24	17	30	33	36	39	42	45
	a	17	20	23	26	29	31	32	35	37	40	43
	b	24	27	30	33	36	38	40	43	46	49	52
	D	22	25	30	32	35	39	42	45	49	51	54
	L	87	82	112	112	112	112	118	118	122	122	126
	L ₁	63	62	75	75	75	75	80	80	80	80	85
	L ₂	55	58	70	70	70	70	75	77	75	75	75
	L ₃	62	65	75	75	75	75	80	90	85	85	
	L ₄	35	35	40	40	45	50	50	53	60	60	
	h	16	20	24	27	30	33	36	39	42	45	48

The PD-series common low-voltage electrical connector

This series of products is used for aviation and other military and civil low-voltage electrical lines. The product meets the requirements of Q/3E20025-2003 specification and the Russian product main band composition code is HЦП, HЦПГ, I technical condition Вл0.364.003ТУ .



Technical function

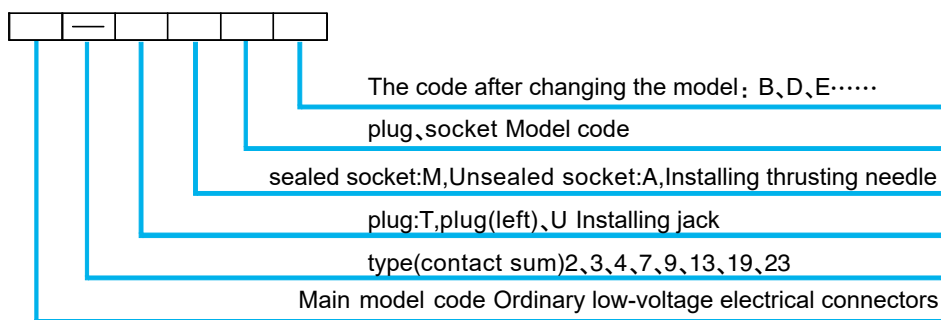
- ◎ **Ambient temperature:** $-60 \sim +50^{\circ}\text{C}$
- ◎ **Humidity:** 20°C Available per hour 98%
- ◎ **Atmospheric pressure:** 5.5kPa
- ◎ **Vibration:** frequency 20~2000Hz, acceleration 98m/s^2
- ◎ **Shock:** frequency 80 times/min, acceleration 68.6m/s^2
- ◎ **voltage rating:** 30V (DC)
- ◎ **Withstanding voltage:** 500V
- ◎ **Insulation resistance:** $\geq 20\text{M}\Omega$ (Ordinary temperature)
 $\geq 2\text{M}\Omega$ (damp heat)

Contact characteristics

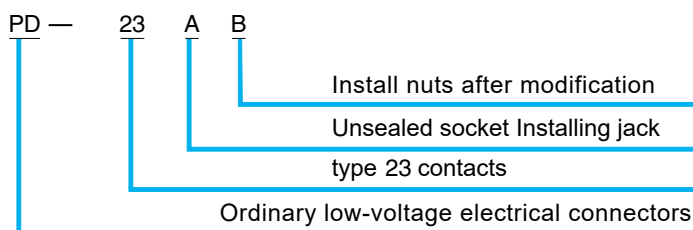
Contact diameter(mm)		$\phi 2.0$	$\phi 3.0$	$\phi 4.0$
Contact	resistance(Ω)	≤ 0.0015	≤ 0.0007	≤ 0.00041
Current rating(A)	1~13 duad	20	40	60
	19~23 duad	18	36	54

- ◎ **airtightness:** The pressure difference between the internal and external media of the sealed socket can reach 50.6KPa
- ◎ **Mechanical durability:** mating cycles 500 times

Model mark



example:



The PD-series common low-voltage electrical connector

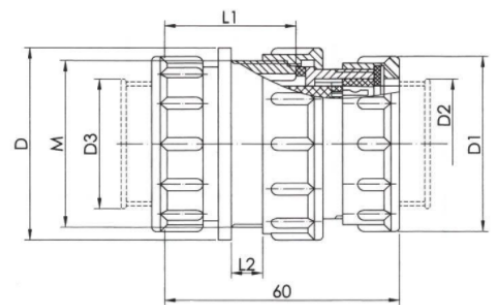
Distribution of the contact parts

Plug socket	socket	plug		No. of Contacts	$\phi 2$	$\phi 3$	$\phi 4$
		left	right				
PD-2A/T	PD-2A		PD-2T	2	1	1	
PD-2AB/T	PD-2AB						
PD-3A/T	PD-3A	PD-3U	PD-3T	3	1		2
PD-3M/U	PD-3M						
PD-3AB/T	PD-3AB						
PD-4A/T	PD-4A	PD-4U	PD-4T	4	3	1	
PD-4M/U	PD-4M						
PD-4AB/T	PD-4A						
PD-7A/T	PD-7A	PD-7U	PD-7T	7	6	1	
PD-7M/U	PD-7M						
PD-7AB/T	PD-7AB						
PD-9A/T	PD-9A	PD-9U	PD-9T	9	8	1	
PD-9M/U	PD-9M						
PD-9AB/T	PD-9AB						
PD-13A/T	PD-13A	PD-13U	PD-13T	13	9	2	2
PD-13M/U	PD-13M						
PD-13AB/T	PD-13AB						
PD-19A/T	PD-19A	PD-19U	PD-19T	19	18	1	
PD-19M/U	PD-19M						
PD-19AB/T	PD-19AB						
PD-23A/T	PD-23A	PD-23U	PD-23T	23	21	2	
PD-23M/U	PD-23M						
PD-23AB/T	PD-23AB						

Outline and Installation Dimension

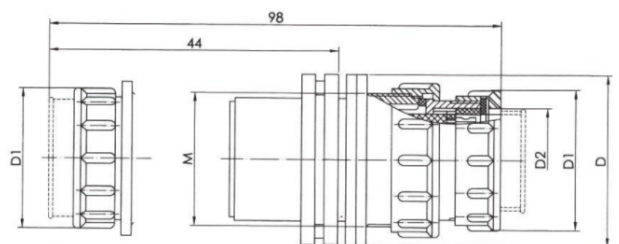
⊙ Unsealed (Or with installation nuts)plug socket PD-□A/T(或 PD-□AB/T)

Type	L1	L2	D	D1	D2	D3	M
PD-2(4)A/T(AB/T)	36	11	30	26	17.2		24
PD-3(7)A/T(AB/T)		14	36	34	23.5		30
PD-9A/T(AB/T)	40	13	42	36	26		36
PD-13A/T(AB/T)			45	42	31.5	32	39
PD-19(23)A/T(AB/T)			51	45	35.5		45



⊙ Sealed plug socket PD-□M/U

Type	D	D1	D2	M
PD-4M/U	38	Same as non sealed plug socket D1,D2,M size		
PD-3(7)M/U	44			
PD-9M/U	50			
PD-13M/U	53			
PD-19(23)M/U	59			



The P-C series through the wall gas sealed electrical connector

This series of products meets the requirements of Q/3E20007-2003 specification standards for aviation, weapons, vehicles and civil equipment, with sealing requirements and connecting and separate electrical lines through the partition. The socket is used together with a p-type plug.



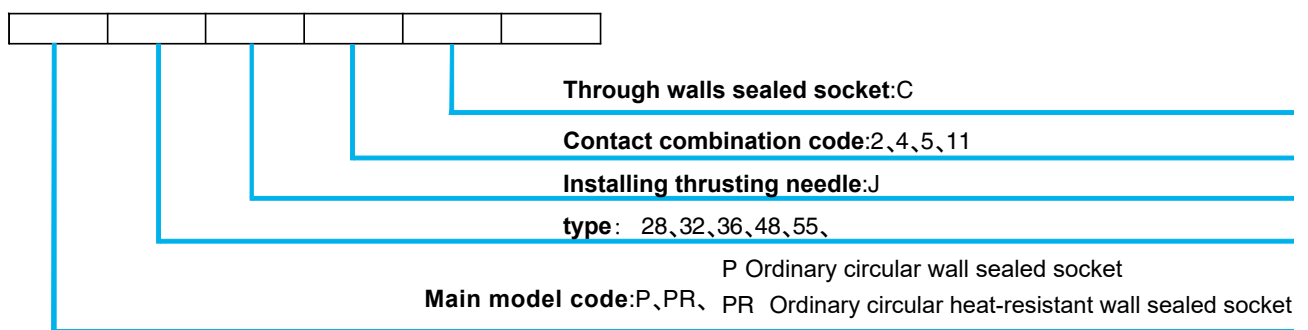
Technical function

- ⊙ **Ambient temperature:** P-C (-60~+60°C), PR-C (-60~+150°C)
- ⊙ **Humidity:** 20°C Available per hour 98%
- ⊙ **Atmospheric pressure:** 2kPa
- ⊙ **Vibration:** frequency 10~2000Hz, acceleration 98m/s²
- ⊙ **Shock:** frequency 40~100 times/min, acceleration 68.6m/s²
- ⊙ **Current rating and Contact resistance**
- ⊙ **voltage rating:** 500V 400Hz (Ordinary temperature)

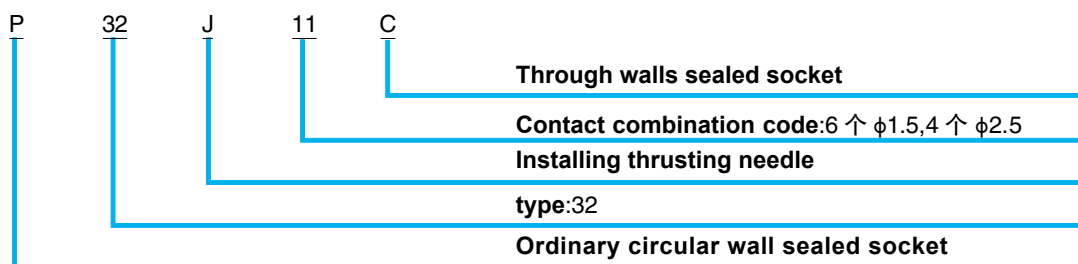
Contact diameter(mm)		φ1.5	φ2.5	φ3.5	φ5.5	φ9.0
Contact resistance(Ω)		0.0025	0.001	0.0005	0.0003	0.00015
Current rating (A)	1~20 duad	10	25	50	100	200
	21~30 duad	8	20	40	80	—
	31~40 duad	7	17.5	35	70	—

- ⊙ **Insulation resistance:** ≥20MΩ (Ordinary temperature)
≥2MΩ (damp heat)
- ⊙ **Testing voltage:** 1500V
750V (damp heat)
- ⊙ **Airtightness:** Pressure difference between internal and external media 101KPa 泄漏速度: ≤0.13KPa/min
- ⊙ **Mechanical durability:** mating cycles 500 times

Model mark

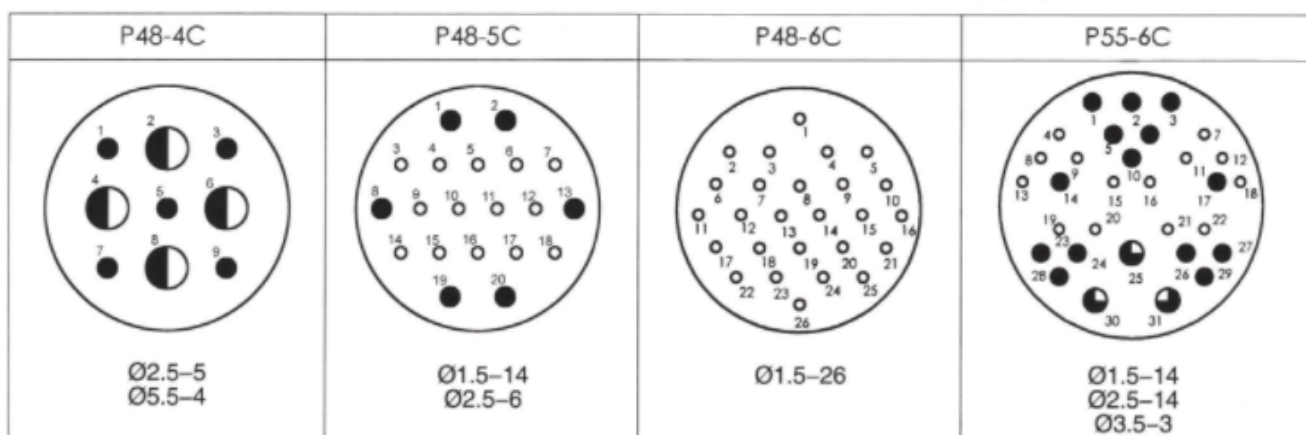
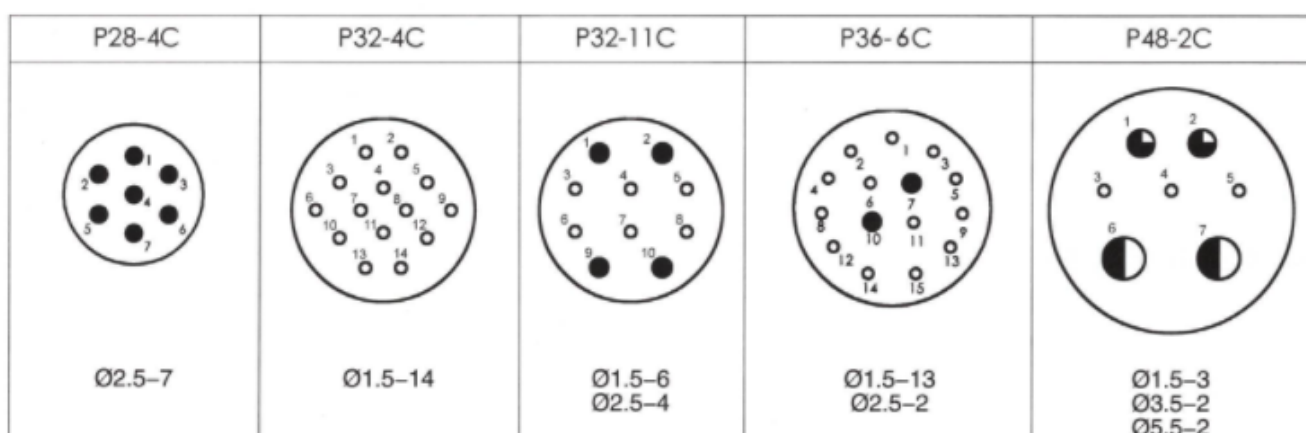
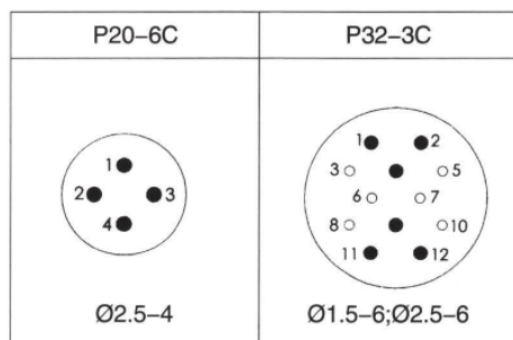


example

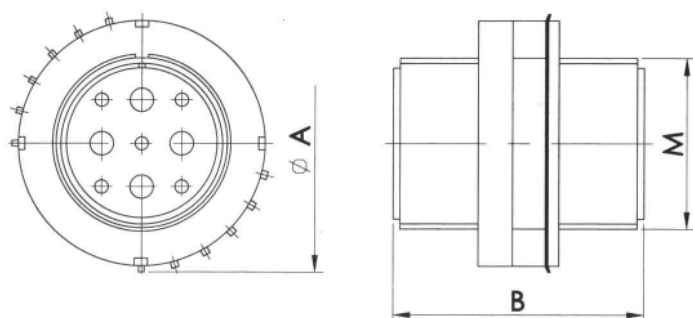


The P-C series through the wall gas sealed electrical connector

Contact arrangement



Outline and Installation Dimension



Model	ØA	B	M
P20-C	42	52.4	24x1.5-8h
P28-C	50.5	52.4	33x1.5-8h
P32-C	53.5	52.4	36x1.5-8h
P36-C	57	52.4	39x1.5-8h
P48-C	70	52.4	52x1.5-8h
P55-C	77.5	52.4	60x1.5-8h