

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

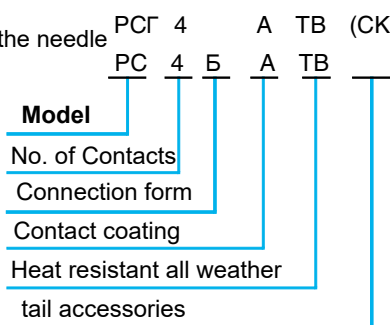
Marker instructions

sequence number		Code meaning	Russian code	China(Factory)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

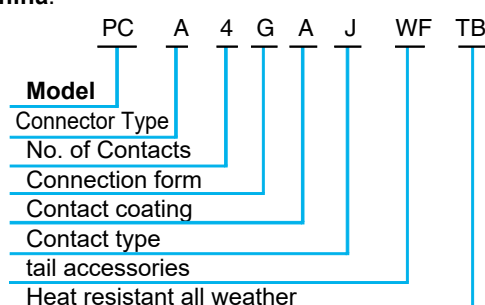
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example:

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

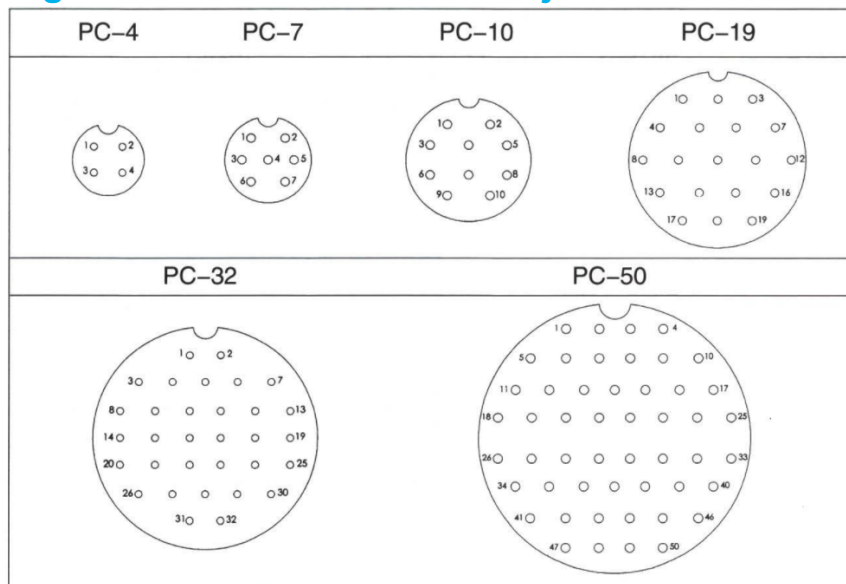


China: PCM 4 A J WF TB



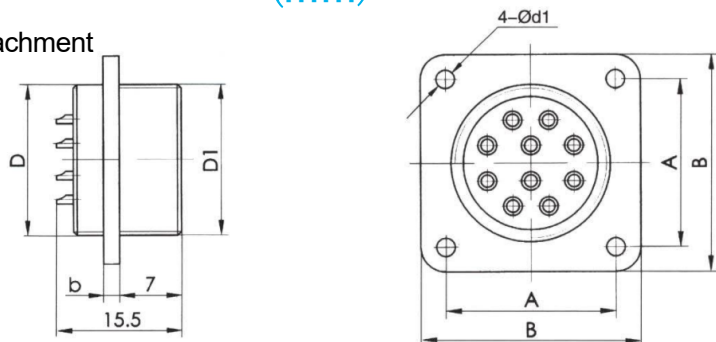
※ illustrate: When ordering original products made in Russia, Connection type must be declared (plug, socket), Contact type (Put in the needle, Fit into the hole) And whether it comes with a tail attachment

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



Outline and Installation Dimension (mm)

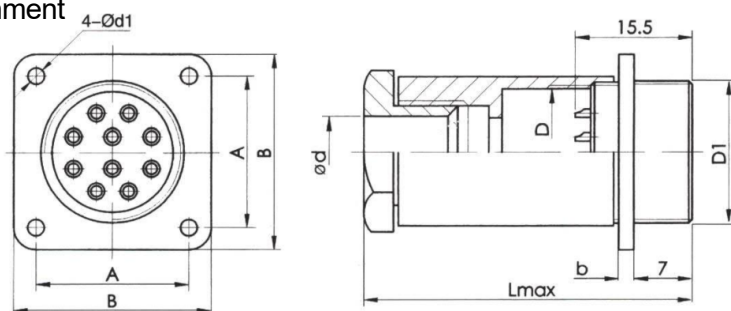
◎ Socket without tail attachment



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

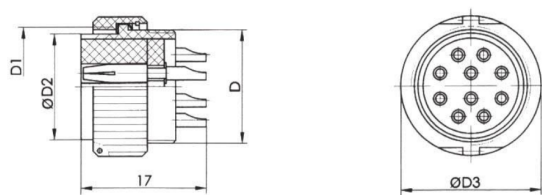
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⊙ Socket with tail attachment



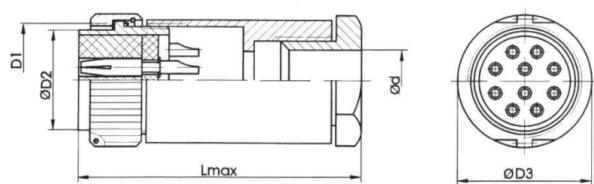
Hole group arrangement	D	D1	d	b	A	B	d1	Lmax
PC-4	M10×0.75	M10×0.75	6	1.4	11.8±0.1	16.5	2.2	35.6
PC-7	M12×0.75	M12×0.75	8	1.4	13.2±0.1	18	2.2	36
PC-10	M14×0.75	M14×0.75	9	1.4	15±0.1	20	2.2	41
PC-19	M18×0.75	M18×1	11	1.4	18±0.1	24	2.2	41
PC-32	M22×0.75	M22×1	13	1.8	21.5±0.1	28	2.7	43.3
PC-50	M27×0.75	M27×1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

⊙ Cable plug without tail attachment



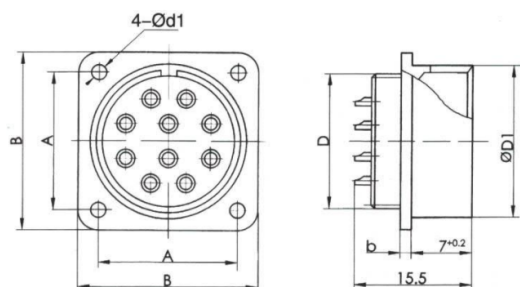
D	D1	D2	D3
M10×0.75	M10×0.75	8.2	13.8
M12×0.75	M12×0.75	10	16
M14×0.75	M14×0.75	12	17.7
M18×0.75	M18×1	15.5	22.3
M22×0.75	M22×1	19.5	26.3
M27×0.75	M27×1	24	31.1

⊙ 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

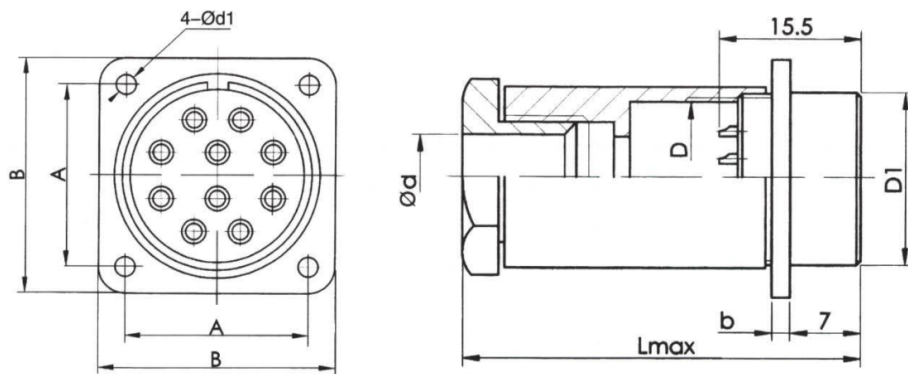


D	D ₁	d ₁	A	B	b
M10×0.75	11.5	2.2	11.8±0.1	16.5	1.4
M12×0.75	14	2.2	13.2±0.1	18	1.4
M14×0.75	16	2.2	15±0.1	20	1.4
M18×0.75	20.5	2.2	18±0.1	24	1.4
M22×0.75	24.5	2.7	21.5±0.1	28	1.8
M27×0.75	30	3.2	26±0.1	33	2.0

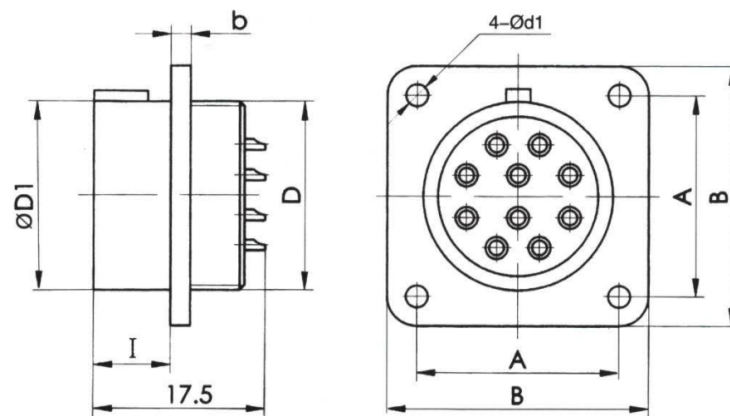
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⊙ Direct plug socket with tail attachment

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



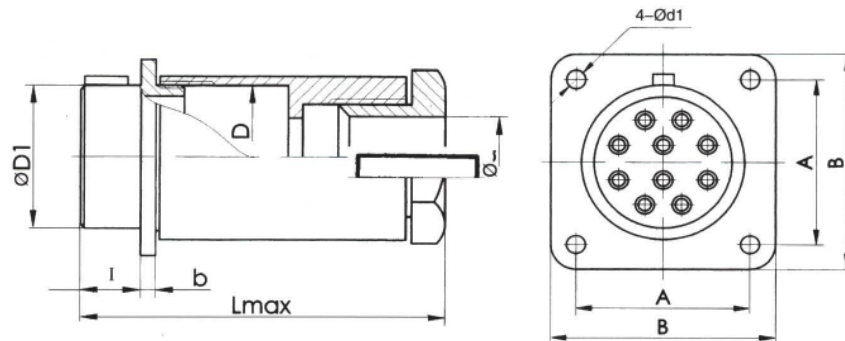
⊙ Direct plug without tail attachment



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

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◎ 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