



RỒNG VÀNG  
TECHNOLOGY



**Ultra-Small Electrical Connector**

**PC Series**

**extended model range**

**substitutes of Russian RS**

[www.rong-vang-technology.vn](http://www.rong-vang-technology.vn)



## Description

PC & PCM (extended model range) connectors are intended for use in DC, AC (frequency up to 3 MHz) and pulse currents (pulse period from 1 up to 60 sec)

Connectors consists of hermetic (Receptacles only) or non-hermetic (unsealed Plugs and unsealed Receptacles)

Connectors are manufactured in two versions:

- Connectors PC & PCM – screw-coupled version
- Connectors PC-G & PCM-G – Rack & Panel version

Contacts:  $\varnothing$  1 mm, non-removable, for wires soldering

Connectors may be with or without backshell

Contact plating for Receptacles is gold and silver for Plugs.

These connectors are manufactured for inner mounting for use in all climate zones in accordance with AVO.364.047TU technical conditions



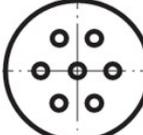
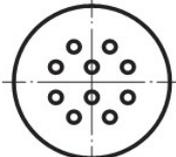
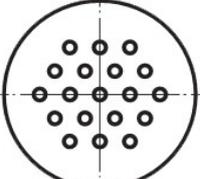
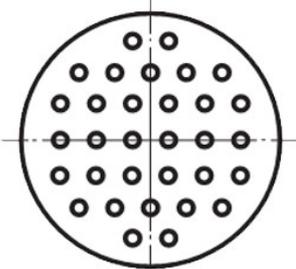
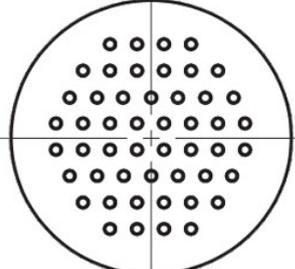
## Technical features

Description	Values
Shell material	aluminum
Contact material	copper alloy
Operating temperature	up -60°C to +85°C (maximum 105°C)
Vibration	up to 2500 HZ, PC – 15 g, PCM – 18 g
Impact	PC – 500 g once and 50 g multiple times; PCM – 150g once and 100 g multiple times
1 bar differential pressure, leakage	≤ 0.3 l/h
Max current rating per contact	4 A
Max current per the whole connector	up to 75 A (50 contacts)
Working voltage	200 V
Dielectric withstanding voltage	1000 V
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 1000 MΩ
Durability	250 cycles
Technical conditions	AVO.364.047TU

## Ordering information

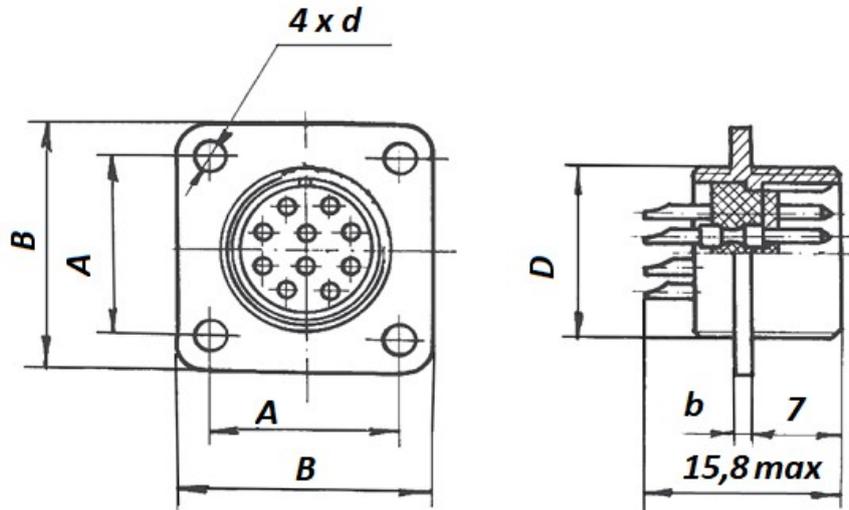
Basic series	PC	A	4	A	J	WF	TB
Sealing Level:							
Omit: unsealed Plug and unsealed Receptacle							
M: hermetically sealed (Receptacle only)							
Connector Type:							
Omit: Plug							
A: Receptacle							
Number of contacts: 4, 7, 10, 19, 32, 50							
Coupling type:							
Omit: screw-coupled version							
G: Rack & Panel version							
Contact plating:							
Omit: Silver							
A: Gold							
Contact Type:							
J: Pin for Receptacle, only							
K: Socket for Plug, only							
Backshell Type:							
Omit: without backshell							
WF: with backshell							
All weather (Obligatory suffix)							

## Contact layouts

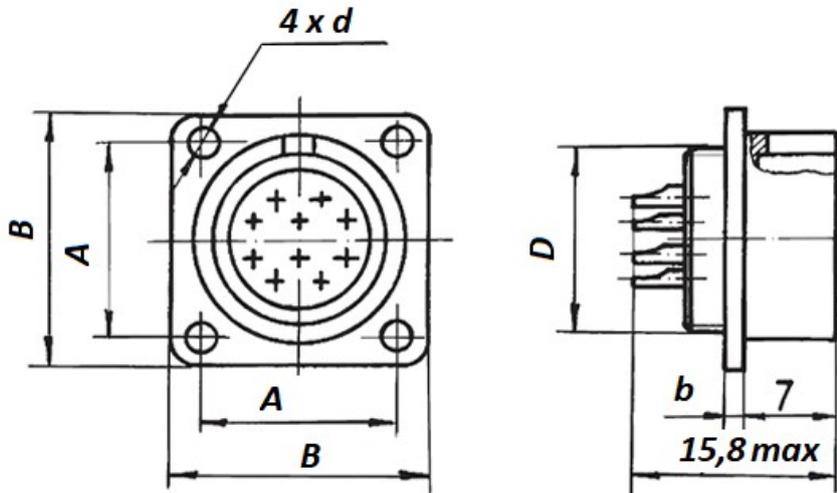
Number of contacts	4	7	10	19
Shell size	10	12	14	18
				
Number of contacts	32		50	
Shell size	22		27	
				

# Dimensions

Receptacles (without backshell)



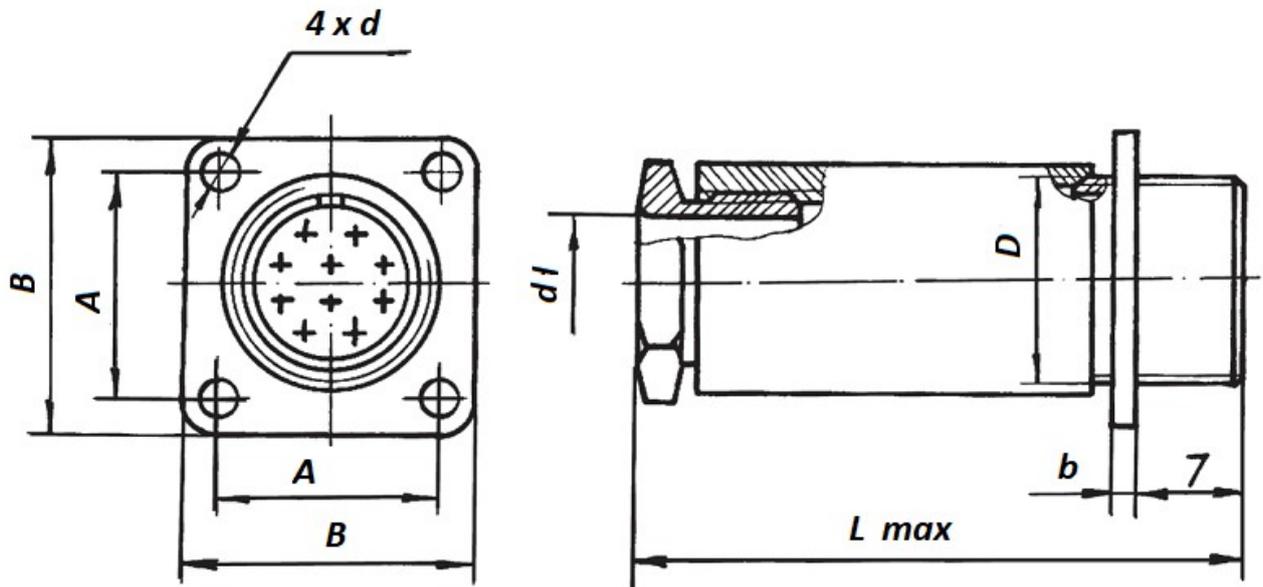
PCA & PCMA type, screw-coupled versions, with pin contacts



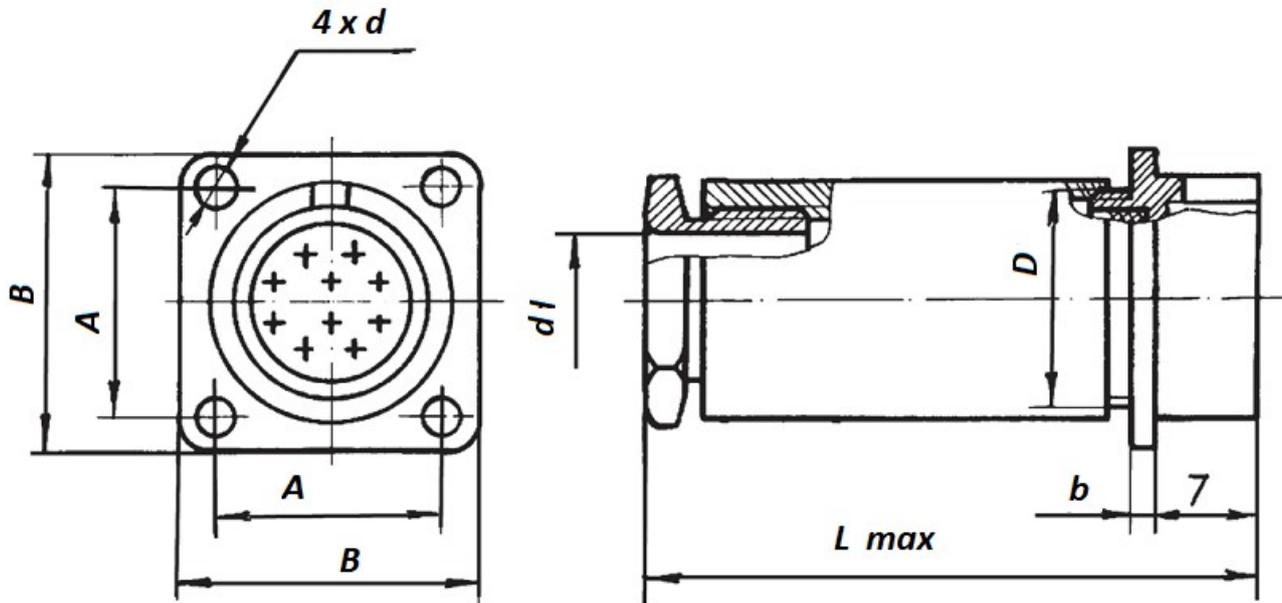
PCA-G & PCMA-G type, Rack & Panel versions, with pin contacts

Shell size	D	Ø d	A	B	b
10	M10x0.75	2.2	11.8	16.5	1.4
12	M12x0.75	2.2	13.2	18	1.4
14	M14x0.75	2.2	15	20	1.4
18	M18x0.75	2.2	18	24	1.4
22	M22x0.75	2.7	21.5	28	1.8
27	M27x0.75	3.2	26	33	2

Receptacles (with backshell)



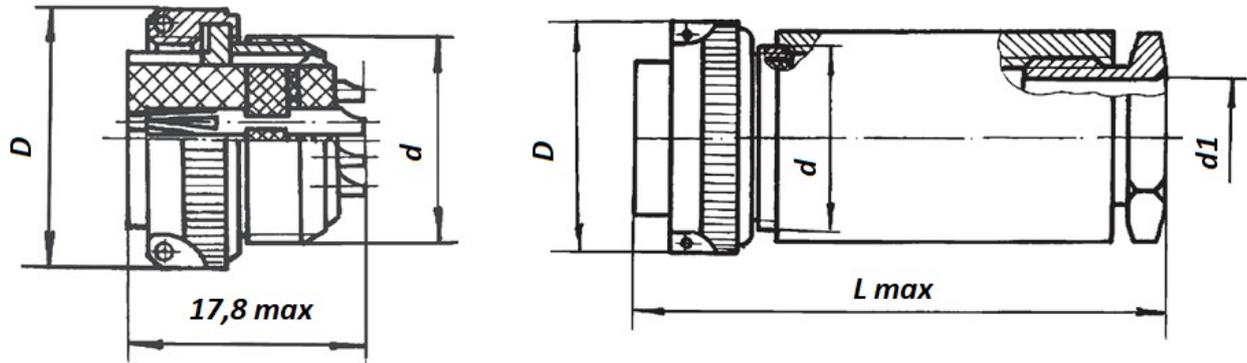
PCA-WF & PCMA-WF type, screw-coupled versions, with pin contacts



PCA-G-WF & PCMA-G-WF type, Rack & Panel versions, with pin contacts

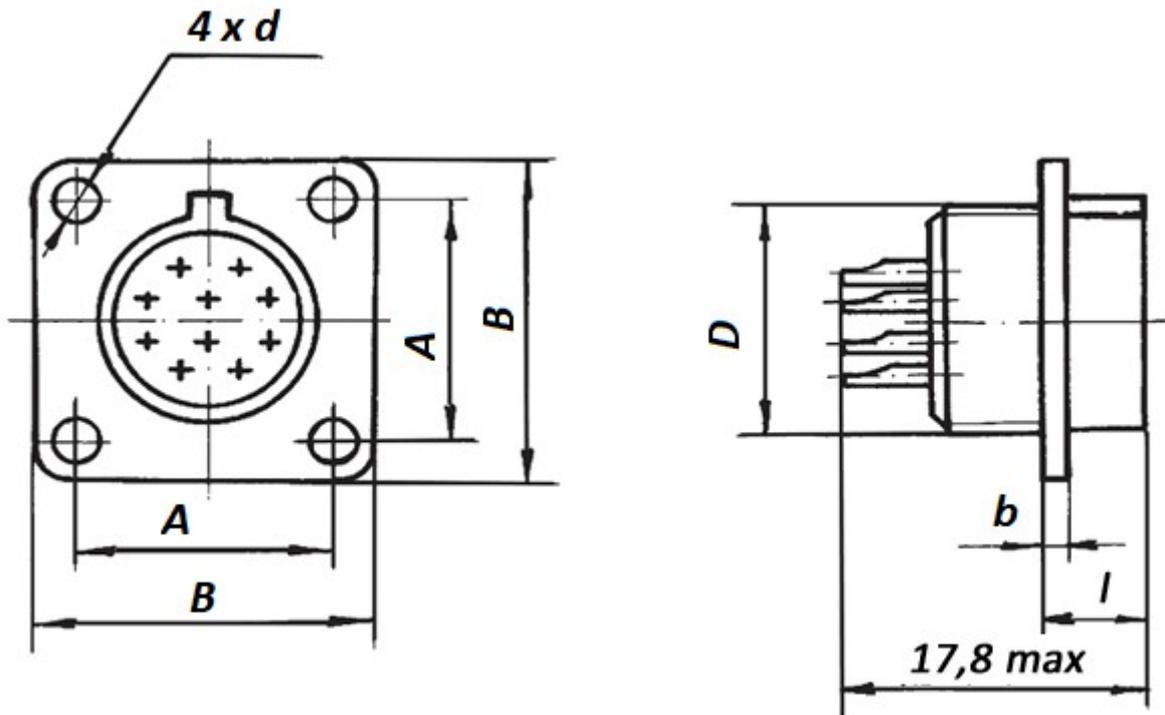
Shell size	D	Ø d	Ø d1	A	B	b	L max
10	M10x0.75	2.2	6	11.8	16.5	1.4	36
12	M12x0.75	2.2	8	13.2	18	1.4	38
14	M14x0.75	2.2	9	15	20	1.4	41
18	M18x0.75	2.2	11	18	24	1.4	43
22	M22x0.75	2.7	13	21.5	28	1.8	45
27	M27x0.75	3.2	16	26	33	2	48

Plugs, screw-coupled versions  
 PC type (without backshell) & PC-WF type (with backshell)



Shell size	D	d	Ø d1	L max
10	14	M10x0.75	6	36
12	16	M12x0.75	8	38
14	18	M14x0.75	9	41
18	22.5	M18x0.75	11	43
22	26.5	M22x0.75	13	45
27	31.5	M27x0.75	16	48

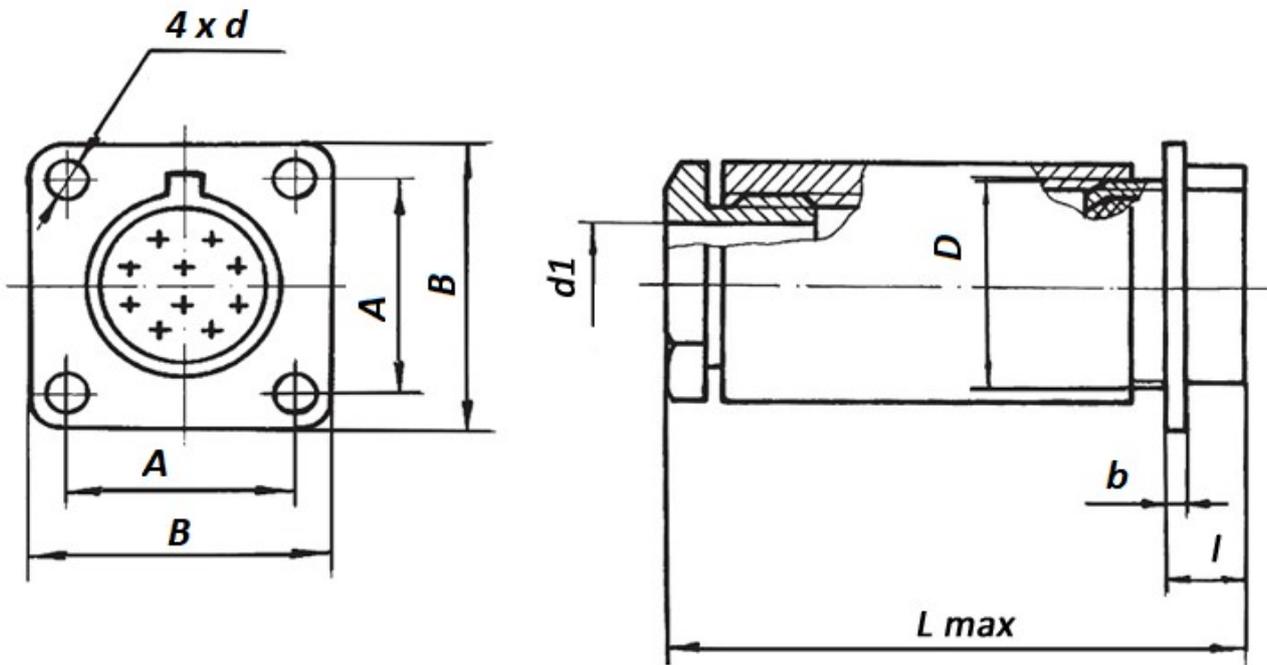
Plugs, Rack & Panel versions (without backshell)



PC-G type, with socket contacts

Shell size	D	$\varnothing d$	A	B	b	l
10	M10x0.75	2.2	11.8	16.5	1.4	5.9
12	M12x0.75	2.2	13.2	18	1.4	5.9
14	M14x0.75	2.2	15	20	1.4	5.9
18	M18x0.75	2.2	18	24	1.4	5.9
22	M22x0.75	2.7	21.5	28	1.8	6.3
27	M27x0.75	3.2	26	33	2	6.5

Plugs, Rack & Panel versions (with backshell)



PC-G-WF type, with socket contacts

Shell size	D	Ø d	d1	A	B	b	l	L max
10	M10x0.75	2.2	6	11.8	16.5	1.4	5.9	36
12	M12x0.75	2.2	8	13.2	18	1.4	5.9	38
14	M14x0.75	2.2	9	15	20	1.4	5.9	41
18	M18x0.75	2.2	11	18	24	1.4	5.9	43
22	M22x0.75	2.7	13	21.5	28	1.8	6.3	45
27	M27x0.75	3.2	16	26	33	2	6.5	48

**CÔNG TY TNHH RỒNG VÀNG TECHNOLOGY**

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