

RFX Series high density ultra-miniature connectors

Description:

- High density, ultra-miniature design, light weight and high mechanical strength
- Aluminum alloy
- Applicable for extremely small space
- Quick bayonet coupling
- Crimped and removable or PCB contact
- Shell sizes 2#, 4#, 6#
- Standard: Q/21EJ733



Designation

Basic series	RFX	0	P	02	05	P	N
Shell type: 0-oval-shaped mounting receptacle							
1-cable wiring receptacle							
2- oval-shaped receptacle with PCB contacts							
3-jam nut receptacle 6-plug							
Shell material: P-aluminum alloy with satin nickel plating							
Shell size: 02, 04, 06							
insert arrangement: please see the insert arrangement figure							
Contact type: P-pin S-socket PC-short PCB pin SC-short PCB socket							
Polarization: N-normal; A/B/C/D-alternatives							

[Part number designation]

LAU0P0205PN: RFX series oval-shaped flange mounting receptacle, aluminum alloy shell with satin nickel plating, 02# shell, 05 insert arrangement, pin, N polarization

Main technical characteristics

[Environmental]

- Temperature range: -55℃~+175℃
- RH: 98%
- salt spray: P type: 48h
- water proof

[Electrical]

—Contact resistance and rated current:

Contact size	Contact resistance (mΩ)	Rated current (A)
26#	15	3
22D#	12	5

—insulation resistance: under normal temperature and pressure: ≥5000MΩ

—Service level

[Mechanical]

- Endurance: 250 cycles
- vibration: 10~2000Hz, 147m/s²
- shock: 10~2000Hz, 3ms, 300g
- contact retention: 26# 35N, 22D 45N

Service level	Withstanding voltage at sea level Vrms
22D contact	1000
26# contact	400

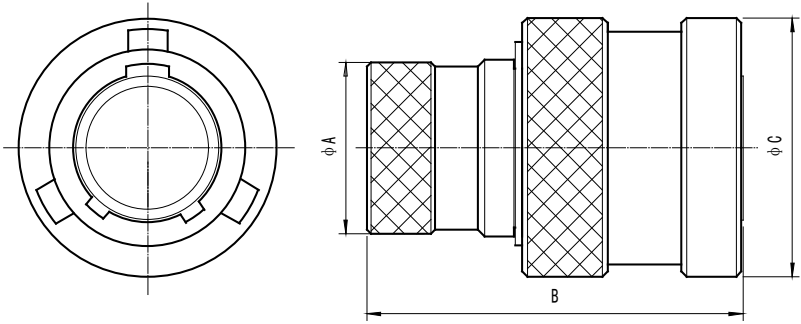
— shell continuity: $<60\text{m}\Omega$ (Class P)

Crimp contacts

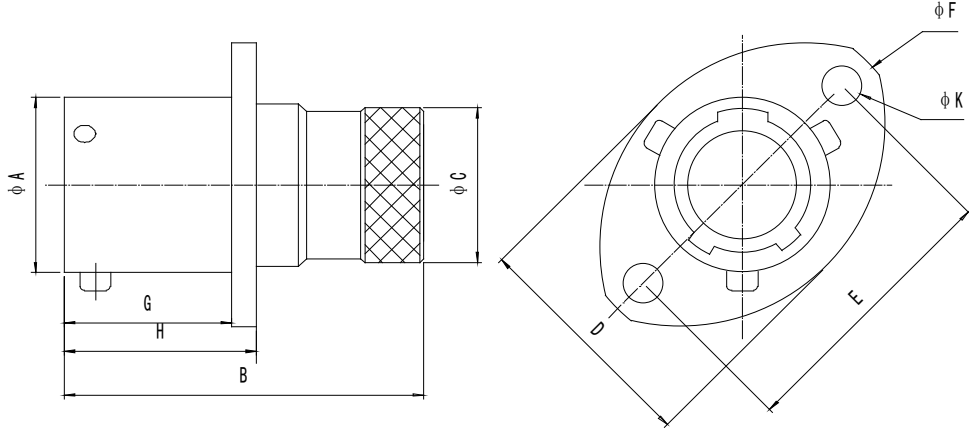
Size	Pin head dia. (mm)	Crimp bucket ID (mm)	Crimp bucket OD (mm)	Applicable wire section (mm ²)	Applicable wire gauge AWG
26#	$\Phi 0.5$	$\Phi 0.45$	$\Phi 0.8$	0.05 0.08	30 28
22D	$\Phi 0.76$	$\Phi 0.85$	$\Phi 1.20$	0.08 0.125 0.2 0.3	28 26 24 22

Outline dimensions

[6 type plug]

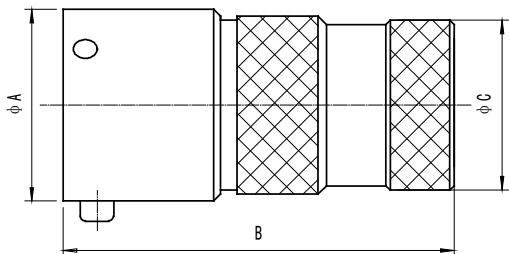
			
Shell size	A	B	C
02	7.2	17.5	11
04	8.6	18.3	13.5
06	10	22	15.1

[0 type receptacle]

	
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Shell size	A	B	C	D	E	F	G	H	K
02	8.3	17.5	7.2	10.6	13.6	17.6	9.5	11	2.1
04	10.1	18.3	8.6	13.2	16.2	20.8	10	11.6	2.2
06	11.3	23	10	15	18	22.6	10.7	12.3	2.2

[1 type wiring receptacle]

			
Shell size	A	B	C
02	8.3	17.5	7.2
04	10.1	18.3	8.6
06	11.3	23	10

[2 type PCB receptacle]

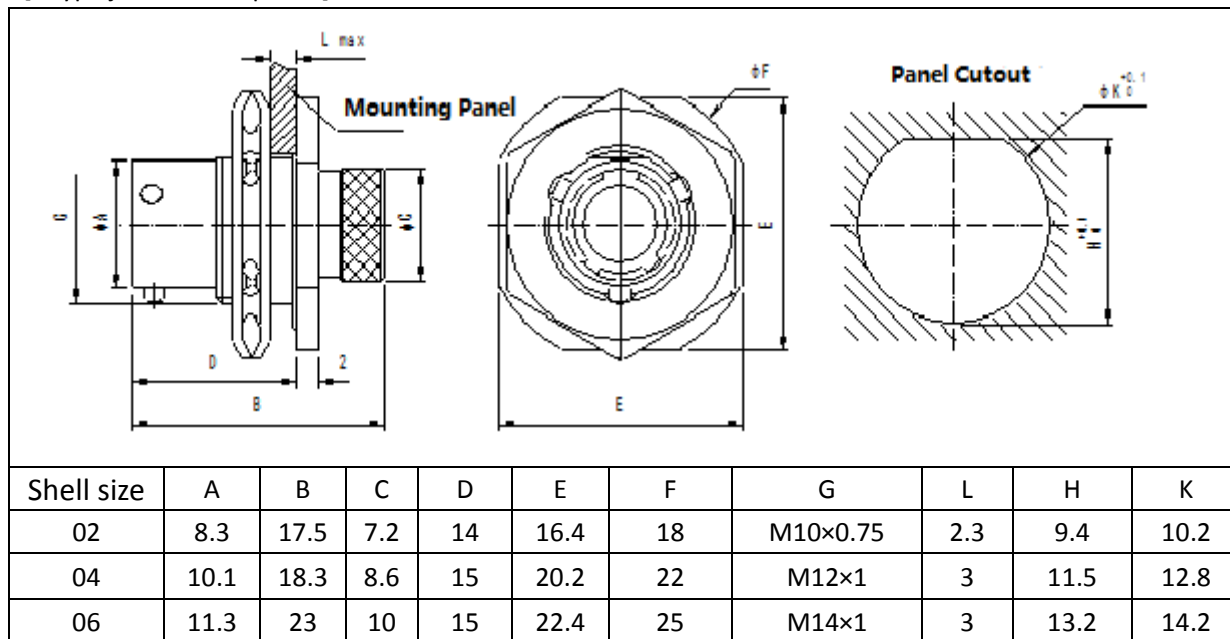
2 type PCB receptacle outline dimensions are the same with 0 type receptacle

The technical drawing illustrates the dimensions and components of a 2 type PCB receptacle. The left view is a cross-section showing the assembly of the shell, rubber mat, and mounting panel. Key dimensions labeled include ϕA (shell height), G (shell thickness), H (rubber mat thickness), B (total height), C (mounting panel thickness), D (internal thread length), $\phi 0.7$ (thread diameter), and 4 (thread length). The right view is a top-down perspective of the shell, showing the circular opening with a diameter of ϕF , the mounting panel with a diameter of ϕK , and the overall dimensions E (width) and F (height).

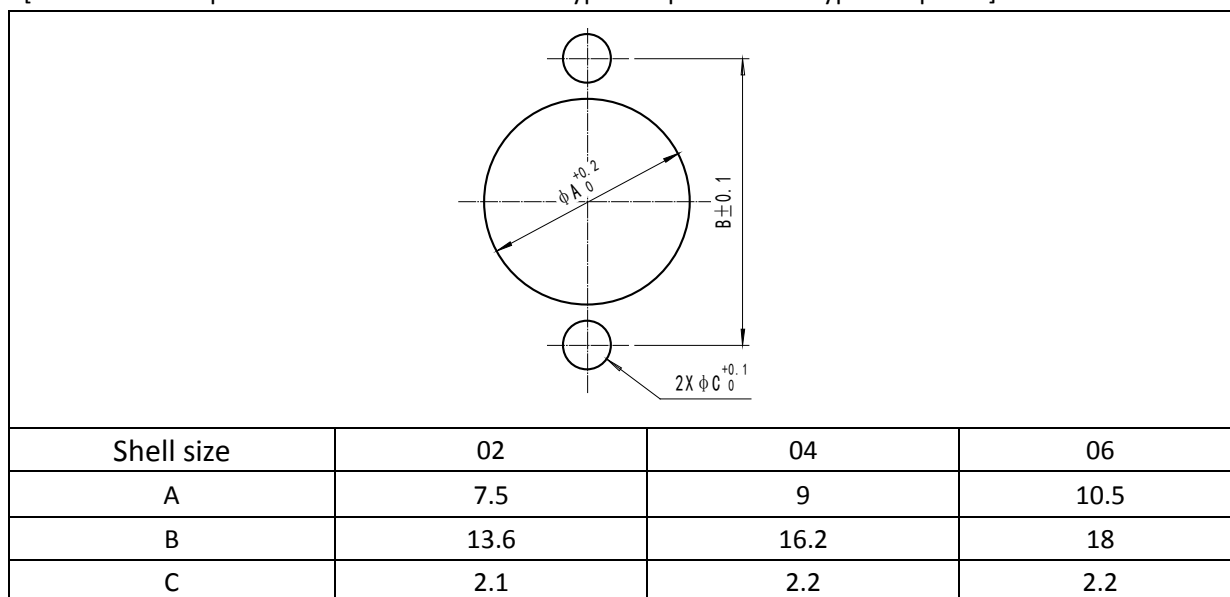
Shell size	A	B	C	D	E	F	G	H	K
02	8.3	17.5	7.2	10.6	13.6	17.6	9.5	11.2	2.1
04	10.1	18.3	8.6	13.2	16.2	20.8	10	12	2.2
06	11.3	23	10	15	18	22.6	10.7	12.7	2.2



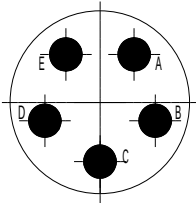
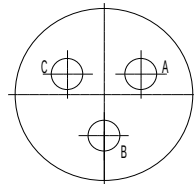
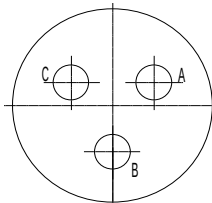
[3 type jam nut receptacle]



[Recommended panel cutout dimensions for O-type receptacle and 2 type receptacle]



Insert arrangement

Shell size	Insert arrangement	Contact No.	Figure
02	02-05	5-26# (in reseach)	
02	02-35	3-22D	
04	04-35	3-22D	
06	06-35	5-22D	