

## FQC series circular connectors



### Products introduction

FQC series circular connectors can be used in the water-proof place. We use the reliable cage clamp connection instead of the traditional wire spring. These connectors have the features of lower contact resistance, anti-libration, shock proof, water proof and strong seal etc. They are widely used for the electrical connection between electrical equipment. Meet CE, RoHs. It can be interchanged with FQ series.

### Product Ordering

FQC / 14 / — 7 / T / K / — 8  
 1 / 2 / 3 / 4 / 5 / 6

1. Name of series            FQC
2. Shell size :                14、 18、 24、 30
3. Number of contacts: 1,2,3,4,5,6,7,9,10,12,13,16,19,26,32,42,55
4. T: Plug(TR:angled plug), Z: flange mounting receptacle, ZP: cable receptacle,  
Z2: Receptacle with O ring, ZY: circular receptacle
5. Type of contacts:    K: socket, J: pin
6. Wire gauge:                5,6,7,8,9,10,12,14,16,18

### Technical characteristics

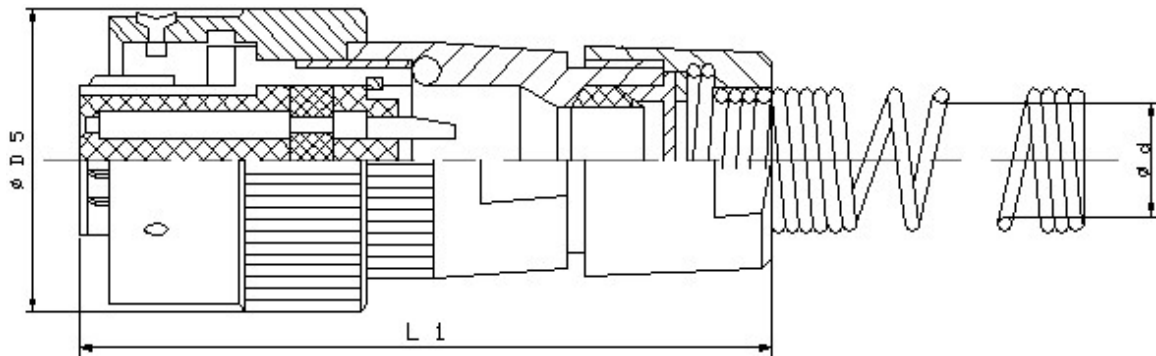
The connector is allowed to submerged in 1m deep water for 30min. (Ip67)

Temperature	Relative humidity	Atmosphere	Vibration	Shock
-55° C~+85° C	(90~96)% at40° C	4.4KPa	10~200Hz,150m/s <sup>2</sup>	490m/s <sup>2</sup>

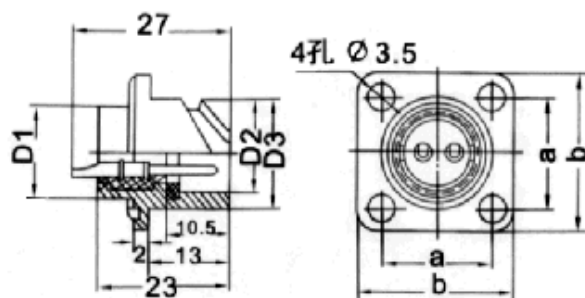
Current	Voltage	Contact resistance	Endurance
2A~5A	250V	$\leq 10\text{m}\Omega$	500cycles
10A-25A	400V	$\leq 5\text{m}\Omega$	500cycles
35A-90A	400V	$\leq 3\text{m}\Omega$	500cycles

Environment	Voltage proof	Insulation resistance
Normal	1200V	$\geq 1000\text{M}\Omega$
High temperature	1000V	$\geq 500\text{M}\Omega$
Moisture	800V	$\geq 100\text{M}\Omega$
Low pressure	400V	-

### Product Dimensions (Plug, Flange mounting receptacle)

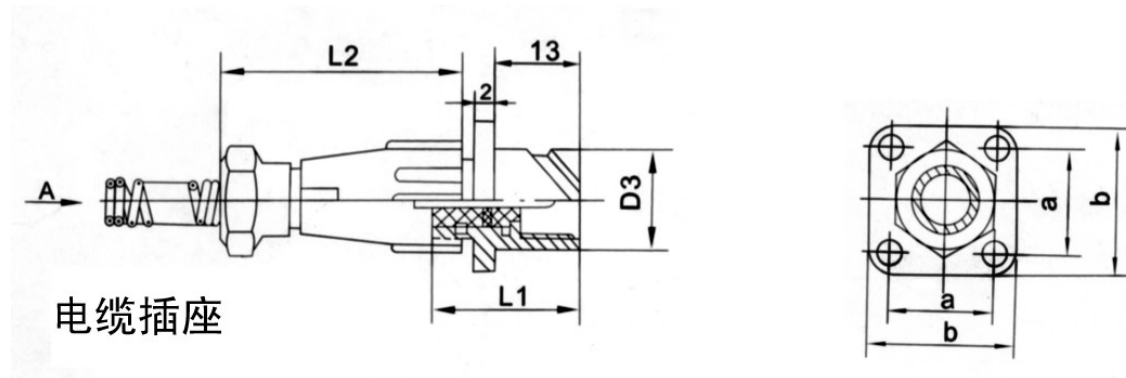


Type	D5	L1	Cable sleeve	$\phi d$
FQC14	$\phi 21$	45	$\phi 5, 6, 7, 8, 9$	5, 6, 7, 8, 9
FQC18	$\phi 27$	48	$\phi 6, 7, 8, 9, 10, 12$	6, 7, 8, 9, 10, 12
FQC24	$\phi 33$	56	$\phi 6, 10, 12, 14$	6, 10, 12, 14
FQC30	$\phi 39$	63	$\phi 10, 14, 16, 18$	10, 12, 14, 16, 18



Receptacle 插座

Type	a	b	D1	D2	D3 Ø
FQC14	17 $\pm$ 0.2	24	Ø14	Ø12.2	16.8
FQC18	20 $\pm$ 0.2	27	Ø18	Ø16.6	21.2
FQC24	26 $\pm$ 0.2	33	Ø24	Ø22.6	27.2
FQC30	31 $\pm$ 0.1	38	Ø30	Ø28.6	33.2



### Cable receptacle

Type	D3 Ø	a	b	L1	Cable sleeve	L2
FQC14	16.8	17	24	21	5, 6, 7, 8, 9	35
FQC18	21.2	20	27	21	6, , 7, 8, 9, 10, 12	38
FQC24	27.2	26	33	21	6, 10, 12, 14	46
FQC30	33.2	31	38	21	10, 12, 14, 16, 18	51

### Contacts number

Type	Number	Contact Ø &Current	Type	Number	Contact Ø &Current
FQC14	2,3	1.5 ,10A/400V	FQC24	1	1.5,10A/3000V
	4	1.5 ,10A/250V		2,3	3.5, 50A/400V
	5,6,7	1.0, 3A/250V		4,6	2.5, 25A/400V
	9,10	0.8, 2A/110V		4A,6A	3, 35A/400V
	13	0.7, 1A/110V		10	1.5,10A/400V

FQC18	1	1.5, 10A/2000V	FQC30	19	1.0 ,3A/250V
	1A	5.5, 90A/400V		26	1.0 ,3A/110V
	2	2.5, 25A/400V		2	5.5 ,90A/400V
	3, 4	1.5, 10A/400V		9	2.5 ,25A/400V
	5,6,7	1.5, 10A/250V		16	2 , 18A/400V
	12	1.0 ,3A/250V		32,42	1.0 ,3A/250V
				55	1.0 ,3A/110V

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