

FQ 系列连接器

FQ series connector

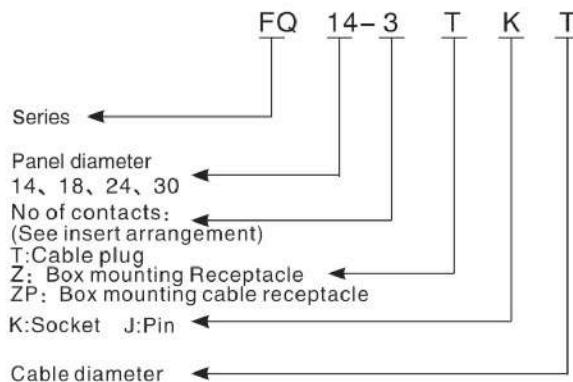
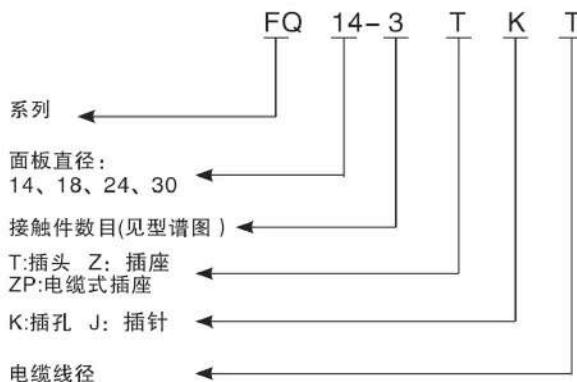
FQ防水型系列圆形电连接器符合电子工业部元器件工业管理局局批准DZ4Q/RE008-84制造，产品结构先进，可靠性高，体积小，重量轻，卡口快速连接，防水性能优良，操作使用简便。结构先进，电连接性能优良，价格低廉，性价比高。插针、插孔引线采用焊接式，产品被广泛使用于各种电子仪器、电子、电气设备间有防水要求的电连接中。

FQ型系列圆形电连接器

FQ series waterproof circular connectors accord with the standard DZ4Q/RE008-84, which is certificated by Ministry of the electronics industry-administrative bureau office. The product owns advanced structure, high dependability small volume, light weight, excellent waterproof, and the bayonets are connected quickly. The pins and the down-lead of jacks are made by welding. As these characteristics, it's easy to operate and it make a low price which is more reasonable. It was widely used in electric connection among various kinds of electric equipments.



命名 How to order



(1) 使用条件

- 工作温度：-55℃~+85℃
- 相对湿度：温度为40℃达93±3%
- 振动：频率10~200HZ, 加速度150m/s²
- 碰撞：加速度490m/s²
- 恒加速度振动：加速度达245mm/s²
- 大气压力：达4.4KPa
- 机械寿命：500次
- 连接器应能在1米深的水中受30分钟的试验而连接器内部不进水

Service environmental condition

- Working temperature:-55℃~+85℃
- Relative humidity:It can reach 93 ± 3% at 40 centigrade
- Vibration:Frequency 10~200HZ,acceleration 1500m/s²
- Collision:Acceleration 490m/s²
- Permanent acceleration vibration:The acceleration reaches 245mm/s²
- Atmospheric pressure:Reach4.4KPa
- Mechanical life-span:500 times
- The connector should be dipped one meter in water for 30 minutes test, without the water drop in

(2) 工作电压、电流、电阻 Main technical parameters

接触件直径 Diameter of contact (mm)	接触件电阻 Contact resistance (Ω)	工作电流 Working current (A)	电压 Voltage (≤400HZ)	
			接点中心距 (mm) Contact centre distance	
			≥3.5	2.8
0.8	0.01	2	500	400
1	0.005	3	500	400
1.5	0.0025	10	500	400
2.5	0.001	15	500	400

注：根据连接器接触对数量，其每一接触对的额定电流规定如下：
 接触对数目：1~20, 为额定工作电流的100%
 接触对数目：21~32, 为额定工作电流的80%
 接触对数目：33~55, 为额定工作电流的70%
 Attention: according to connectors of the contact amount, the rated current of each contact are following:
 The amount of contact:1~20, the rated current is 100%
 The amount of contact:21~32, the rated current is 80%
 The amount of contact:33~55, the rated current is 70%

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(3) 试验电压 (50HZ) Experimental voltage(50HZ)

接触对中心距 Contact centre distance (mm)	正常条件下 Normal(V)	潮湿试验后 Moisture test(V)
≥3.5	1500	1000
2.8	1200	800

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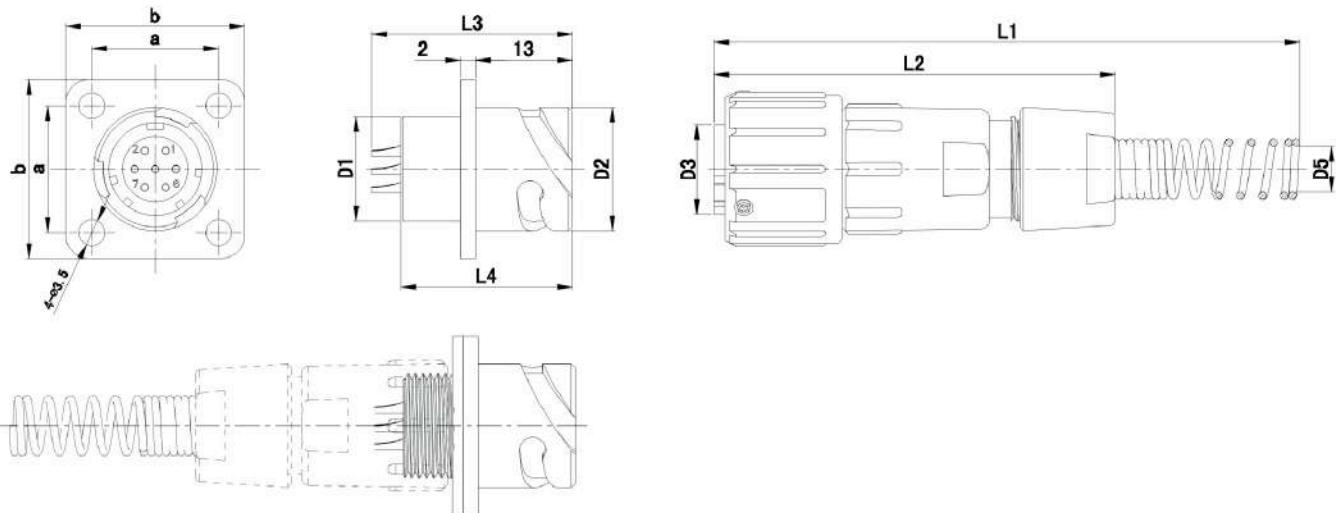
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(4) 低气压条件下的试验电压 (50HZ) Experimental voltage under low pressure

大气压力 Atmospheric pressure(kPa)	接触对中心距 Contact centre distance (mm)	
	≥3.5	≥2.8
46.7	1000V	730V
8.5	500V	400V
4.4	400V	300V

(5) 绝缘电阻 Insulation resistance

正常条件下 Normal(V)	高温条件下 High temperature	潮湿试验后 Moisture test(V)
≥500MΩ	≥500MΩ	≥100MΩ



类型 Type	安装及外型尺寸 Fixing and exterior dimension										
	a	b	D1	D2	D3	D4	D5	L1	L2	L3	L4
FQ24	26 ± 0.20	33	Φ24 ^{0.02}	Φ 33.2	Φ 22.6	Φ 24.5	Φ6/Φ10/Φ12	93	62	26	23
FQ18	20 ± 0.20	27	Φ18 ^{0.02}	Φ 20.7	Φ 16.6	Φ 18.5	Φ6/Φ7/Φ8/Φ9/Φ10	84	58	24	23
FQ14	26 ± 0.20	24	Φ14 ^{0.02}	Φ 16.8	Φ 12.4	Φ 14.5	Φ6/Φ7/Φ8	80	53	26	25

型普图 Insert configuration

