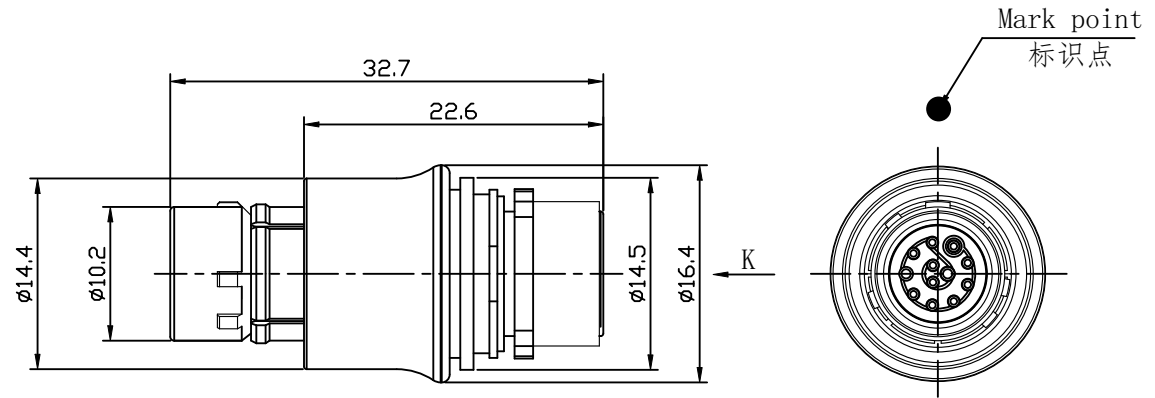


REV/版本	DESCRIPTION/变更内容	DATE/日期	DRAWN BY/绘图

1) Product main performance/产品主要性能指标:

Operating Temperature/工作温度: -55°C~200°C  
 Humidity(max)/最大潮湿: <=95% [at 60 deg C / 140 F]  
 Shielding /屏蔽性能: 55dB(1GHz)  
 Salt Spray Corrosion/盐雾: 96hr  
 P op (max)/最大环境压力: 60 bar (870 psi)  
 Insert Configuration/针芯配置: 12芯 接点代码: 052  
 Pin Size/接触件直径:  $\phi 0.5\text{mm} + \phi 0.7\text{mm}$   
 R (Max)/接触电阻:  $\leq 15\text{m}\Omega$   
 Differential transmission rate/差分传输速率: 5Gbps  
 Insulation resistance/绝缘电阻: 5000M $\Omega$   
 Withstand voltage/耐电压: 875V  
 Rated Current/额定电流: 1.8A( $\phi 0.5$ )、3.8A( $\phi 0.7$ )  
 Cable AWG/配接电缆规格:  $\phi 6.1 - \phi 8.0\text{mm} / 26\text{AWG}$



2) Mechanical data/机械特性:

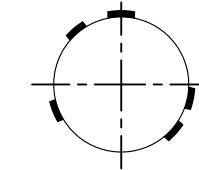
Vibration/振动:  $1.0\text{G}^2/\text{Hz}$ , 均方根值36.6G,  $\leq 1\mu\text{s}$ 瞬断  
 Shock Resistance/冲击: 加速度2940m/s<sup>2</sup>,  $\leq 1\mu\text{s}$ 瞬断  
 Endurance (Shell)/机械寿命: 5000次

3) Other Specification/其它规格:

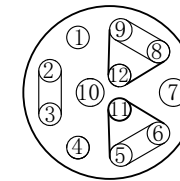
Contact PIN/接触件: Gold plated Tin bronze/锡青铜镀金  
 Housing Material/外壳材质: Dark nickel plated brass/铜镀哑镍  
 Other metal spare parts/其余金属件: Nickel plated brass/铜镀镍  
 Insulator material/绝缘材料: PEEK  
 IP Rating/防护等级: IP68(2m水深24h) 插合状态  
 \*ALL MATERIALS ARE RoHS COMPLIANT/所有材料均符合RoHS要求

Mark point  
标识点

键位标识(A定位)



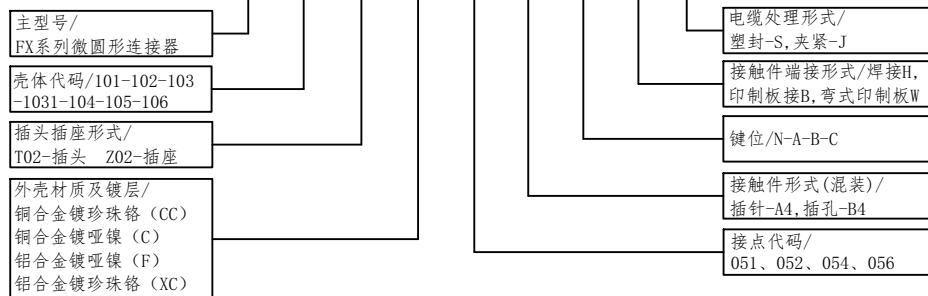
Plug front view  
插头前视图



view K  
K向孔位排布

孔位	信号定义
1	VBUS
4	GND
2	DATA+
3	DATA-
5	SSTX+
11	GND DRAIN
6	SSTX-
8	SSRX+
12	GND DRAIN
9	SSRX-
7	POWR
10	GND

型号命名 → FX·1031·T02·C·052·A4·A-H·S



TOLERANCES UNLESS OTHERWISE SPECIFIED:	FIRST ANGLE PROJECTION	Product name/产品名称
未标注尺寸公差: $\pm 0.1$ 未标注角度公差: $\pm 0.5^\circ$	SIZE: A4 UNITS: mm SCALE: 1: 1 SHEET: 1 OF 1	FX1031 Plug FX1031直式插头
DRAWN BY: 绘图: Pd04	DATE/日期: 2023-09-12	QM NO 料号: FX1031T02C052A4A-HS
CHECKED BY: 审核: Pd02	DATE/日期: 2023-09-12	DRAWING NO 图号
APPROVED BY: 核准: Pd02	DATE/日期: 2023-09-12	CUSTOMER NO 客户料号
		REV/版本: A1
		 QMN Connector System QM(Quanna) Connector Shenzhen Co. LTD 深圳市全马连接器有限公司