

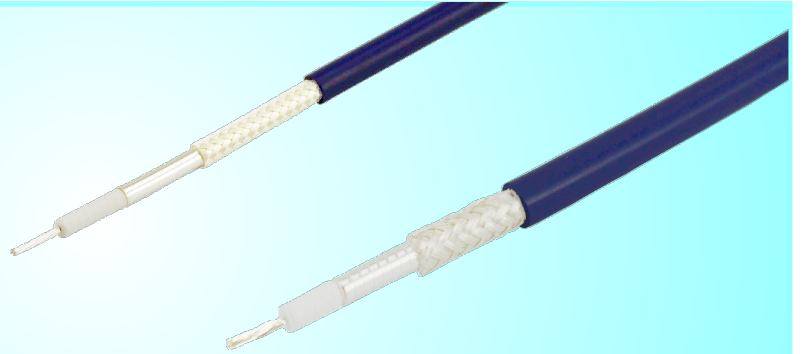
JF 系列 Super Flexible

超低损耗&稳幅稳相超柔多芯同轴电缆

- *Low Loss
- *Phase & Amplitude Stable
- *Super-Flexible

电缆特点

- *最高工作频率DC-40GHz
- *温度稳相1000PPM
- *机械稳相 $\pm 3^\circ$
- *幅度稳定性 $\pm 0.1\text{dB}$
- *超低损耗
- *优良的屏蔽性能



Features & Advantages

- *Operating Frequency up to DC-40GHz
- *Phase Stable 1000PPM
- *Mechanical Phase Stable $\pm 3^\circ$
- *Amplitude Stability $\pm 0.1\text{dB}$
- *Ultra Low Loss
- *Superior Shielding Effectiveness($< -90\text{dB}$)

典型应用-Applications

- 弹载设备
- 车载、舰载通信设备
- 军用/商用天线
- 军用/商用基站
- 狭小、复杂安装空间

产品介绍-Products Instruction

JF系列电缆采用了特殊的结构设计及先进的生产工艺,使得电缆在全频段范围内有着优良的电气与机械性能指标。

电气性能方面,信号传输率高达83%,温度相位稳定性小于1000PPM,同时还具有低损耗、屏蔽效率高等优点。

机械性能方面,低密度绝缘和铜带绕包,使得电缆有更好的弯曲性和较长的机械相位稳定性能。

环境使用方面,采用耐环境性能优质的原材料使其具有使用温度范围宽、抗腐蚀性、防潮防霉、阻燃等特点。



- Vehicle&shipboard communication
- Military/commercial antenna

- Missile
- Radio station



- Military/commercial Base station
- Any small complex space

超柔同轴电缆

Low Loss Super Flexible Coax

结构材料与尺寸 Material & Construction (可定制尺寸、材料、颜色等)

结构 Structure	材质 Material	JF360	JF500
1. 中心导体 (mm) Center Conductor (mm)	镀银铜 Silver Plated Copper	0.72 (7*0.24)	1.02 (19*0.204)
2. 介质 (mm) Dielectric (mm)	低密度PTFE ND PTFE	2.10	3.07
3. 外导体 (mm) Outer Conductor (mm)	镀银铜带 Silver Plated Copper Ribbon	2.23	3.27
4. 外屏蔽 (mm) Outer Shields (mm)	镀银铜丝 Silver Plated Copper	2.71	3.78
5. 护套 (mm) Jacket (mm)	蓝色 FEP/PUR Blue FEP/PUR	3.60	5.00

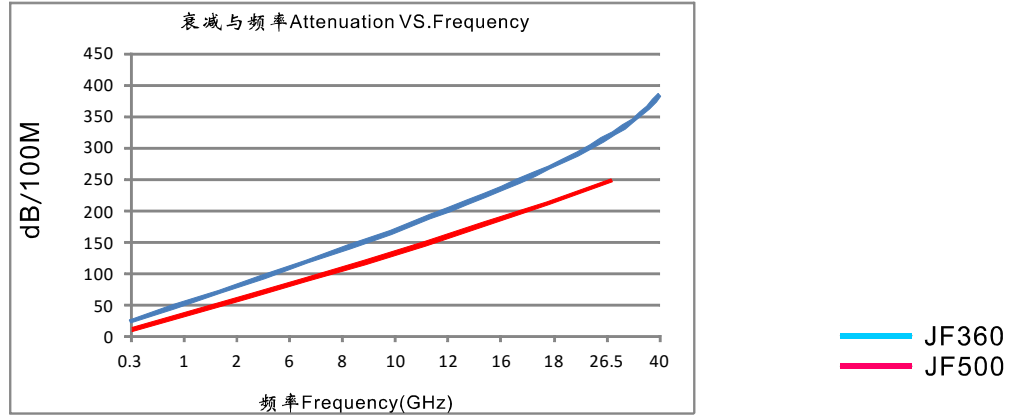
主要参数指标 Specifications

主要参数指标 Specifications	JF360	JF500
工作频率 Operating Frequency Range (GHz)	40	26.5
特性阻抗 Impedance (Ω)	50	50
传输速率 Vp (%)	76	76
介质耐压 Voltage Withstand (V,DC)	500	1000
屏蔽效率 Shielding Effectiveness (dB)	<-90	<-90
静态弯曲半径 Bend Radius: Installation (mm)	14	20
动态弯曲半径 Bend Radius: Repeated (mm)	36	50
重量 Weight (g/m)	30	50
工作温度范围 Operating Temperature Range ($^{\circ}\text{C}$)	-55~85	-55~85

超柔同轴电缆 Super Flexible Coax

衰减vs. 频率变化曲线图 Attenuation vs Frequency

电缆衰减/Cable Attenuation 典型值@ + 25° 环境温度



Nominal Values @+25° Ambient Temperature

衰减vs. 频率 Attenuation vs. Frequency (dB/100m)

频率 (Mhz) Frequency	300	1000	2000	6000	8000	10000	12000	16000	18000	26500	40000
JF360	27.96	51.86	74.4	133.45	156.03	176.3	195	229.1	244.88	305.54	388.8
JF500	20.45	38.47	55.9	103.22	121.9	138.9	154.8	184.2	198.03	252.07	

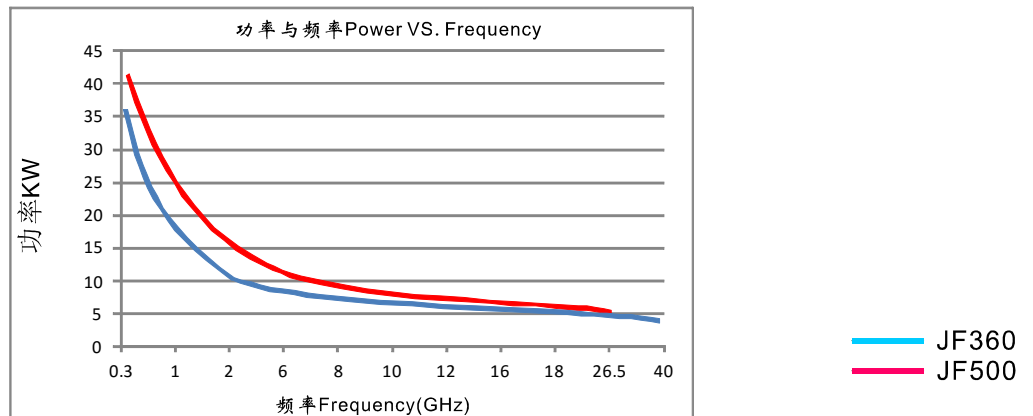
JF360—K1=1.582929 K2=0.001806

JF500—K1=1.13660 K2=0.002530

其他任意频点衰减=K1*sqrt(fMHz)+K2*fMHz: dB/100m

功率vs. 频率变化曲线图 Power vs Frequency Curve

功率定义/Power Handling: 最大值@ + 40° C的环境温度和海平面



Maximum Values @ +40 °C Ambient Temperature And Sea Level

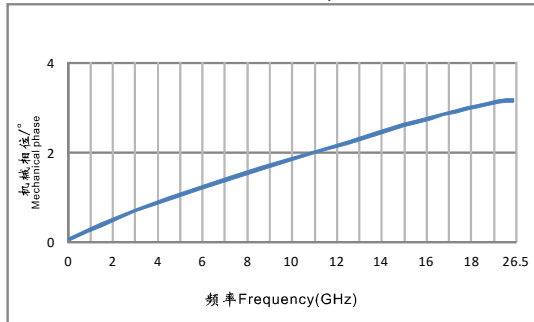
功率vs. 频率 (KW) CW Power Handling vs. Frequency

频率 (Mhz) Frequency	300	1000	2000	6000	8000	10000	12000	16000	18000	26500	40000
JF360	0.22	0.12	0.06	0.05	0.046	0.042	0.039	0.034	0.03	0.02	0.013
JF500	0.28	0.15	0.11	0.06	0.05	0.046	0.04	0.038	0.032	0.02	

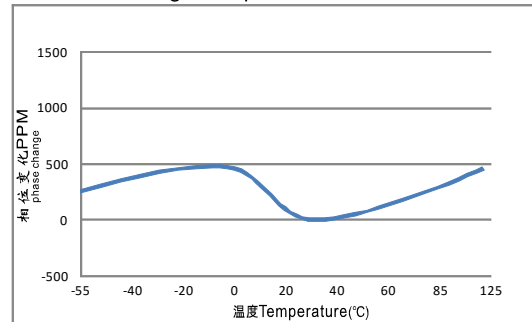
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Super Flexible Coax

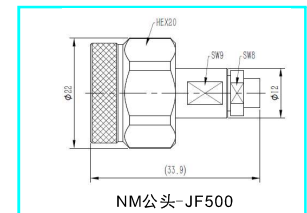
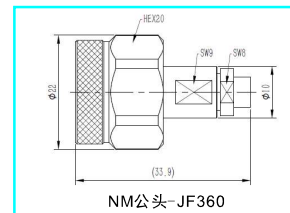
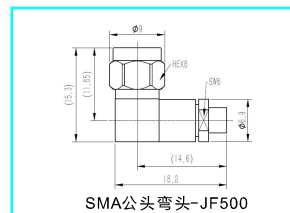
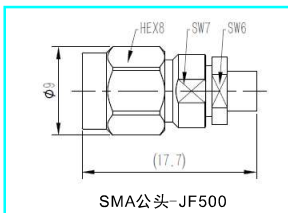
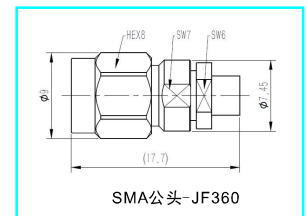
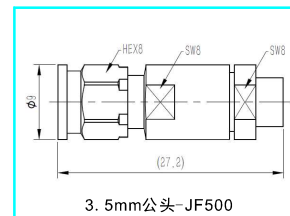
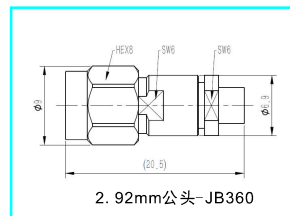
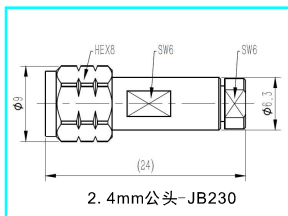
*机械相位稳定
*Mechanical Phase Stability



*温度相位变化 (ppm)
*Phase Change Temperature



部分连接器尺寸图 Connector Outline Drawing



适配连接器 Cable Connector Type

连接器 Connector	型号 Type	材料 Material	装接方式 Assembly Type	适用电缆 Applicable to cable
2.4MM	24-XXX	不锈钢	焊接/Welding	JF360
2.92MM	29-XXX	不锈钢	焊接/Welding	JF360
3.5MM	35-XXX	不锈钢	焊接/Welding	JF500
SMA	SMA-XXX	不锈钢	焊接/Welding	JF360/JF500
N	N-XXX	不锈钢	焊接/Welding	JF360/JF500

备注Remark:
XXX表示电缆型号; xxx Refer to Cable Type
其余形式连接器(如TNC、BNC、SMP等)可定制 Other Type Conector also Available

