

RFSB520

高性能低损耗超柔射频电缆

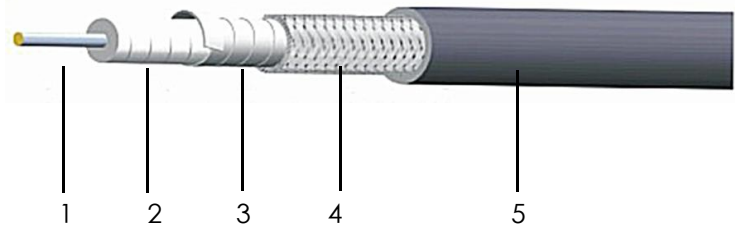
Ver A1 发布日期 2018年3月



P/N: 11052

产品特点

- 82%Vp PTFE介质+镀银铜带编织
- 超低损耗，极佳的温度相位
- 等同于 UFB205A
- 可替换 CNX3449, HF190, IW1801



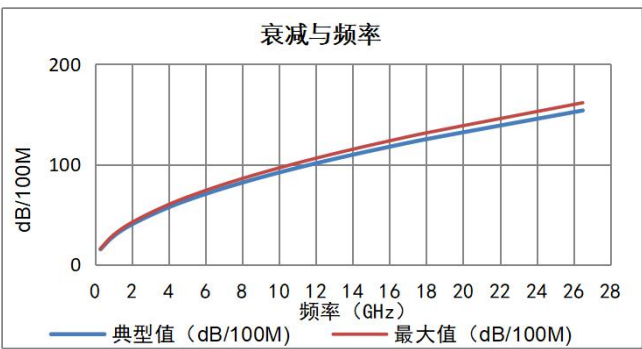
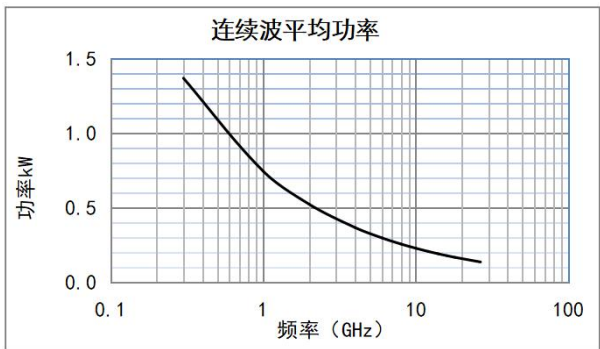
结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	1.45	±0.03	绞合镀银铜
2	电介质	4.00	±0.05	低密度PTFE
3	外导体	4.20	±0.05	镀银铜带
4	中间层	4.75	±0.10	镀银铜丝
5	外层屏蔽	5.20	±0.15	PTFE护套

机械与环境性能

弯曲半径，最小安装(mm)	26	工作频率(GHz)	26.5	弯曲相位 ±8° @26.5GHz
弯曲半径，重复弯曲(mm)	52	特性阻抗(Ohms)	50	温度相位 600PPM (-55~85)
重量(g/m)	45	传播速率	82%	幅度稳定 ±0.15dB @26.5GHz
温度范围，安装与使用(°C)	-65~200	屏蔽效率(dB)	≥90	
截至频率(GHz)	28	耐压(V,DC)	1500	

电气性能



衰减值（典型值@25°C&VSWR=1.0）与传输功率值（典型值@40°C&一个标准大气压下）

频率 MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 m	15.3	28.2	40.1	57.2	70.5	81.8	91.9	101.1	109.7	117.7	125.2	153.9
平均功率 kW	1.367	0.744	0.523	0.367	0.297	0.256	0.228	0.207	0.191	0.178	0.167	0.136
K1= 0.8782500						K2= 0.0004112						
计算公式 K1*√FMHz+K2*FMHz						最大衰减高出10%						

Defined by: Luke

Prepared by: Eric

Approved by: K.F. Lu

Rev: A/0

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RFSB520

Ultra Low Loss Ultra Flexible Phase Stable Coax Cable

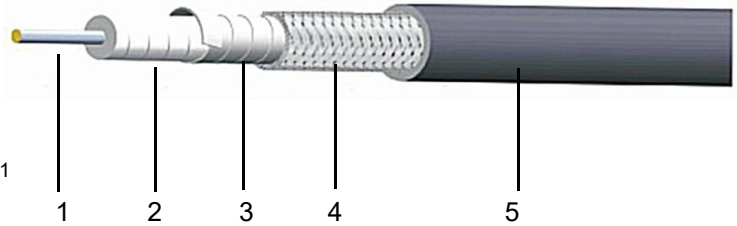
Ver A1 Release Date Match, 2018



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Features&Benefits

- 82%Vp PTFE Tape+SPC Foil
- Ultra-low loss, excellent temperature phase
- Equivalent to UFB205A
- Replace to CNX3449, HF190, IW1801



Construction Specification

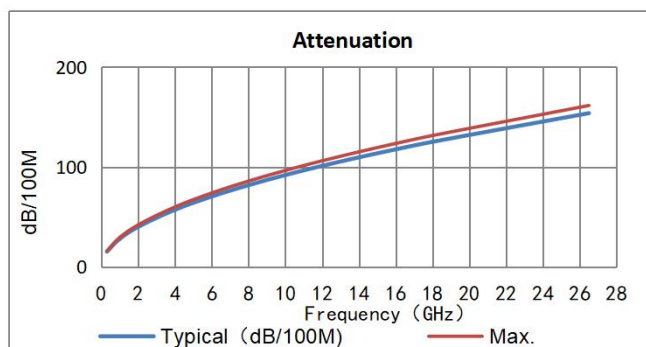
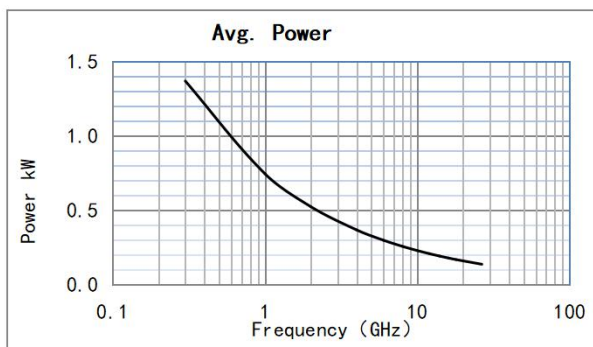
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.45	±0.03	Stranded Silver Plated Copper
2	Dielectric	4.00	±0.05	LD PTFE
3	Outer conductor	4.20	±0.05	Silver Plated Copper Foil
4	Outer shield	4.75	±0.10	Silver Plated Copper
5	Jacket	5.20	±0.15	PTFE Jacket

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	26
Bend Radius:repeated (mm)	52
Weight (g/m)	45
Temp, Operating&Installation (°C)	-65~200
Cutoff Frequency(GHz)	28

Electrical Specifications

Operation Frequency (GHz)	27	Bending phase	±8°@26.5GHz
Impedance (Ohms)	50	Temp. phase	±600PPM (-55~85)
Velocity of Propagation	82%	Mech. phase	±0.15dB @26.5GHz
Shielding Effectiveness (dB)	≥90		
Voltage Withstand (V,DC)	1500		



Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 m	15.3	28.2	40.1	57.2	70.5	81.8	91.9	101.1	109.7	117.7	125.2	153.9
Avg.Power kW	1.367	0.744	0.523	0.367	0.297	0.256	0.228	0.207	0.191	0.178	0.167	0.136
K1=	0.8782500					K2=	0.0004112					

Calculate Attenuation= $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$

Maximum attenuation is 10% higher.

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