

# RFSK800

Ultra Low Loss Phase Stable Coax Cable

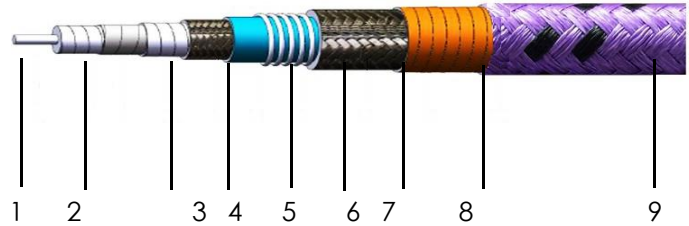
Ver A1 Release Date Match, 2018



P/N: 20080A

## Features&Benefits

- 83%Vp PTFE Tape+SPC Foil
- Ultra-low loss, excellent temperature phase
- Equivalent to UFB311A
- Replace to CNX3450,HF290,IW2801  
LA290,LLS290



## Construction Specification

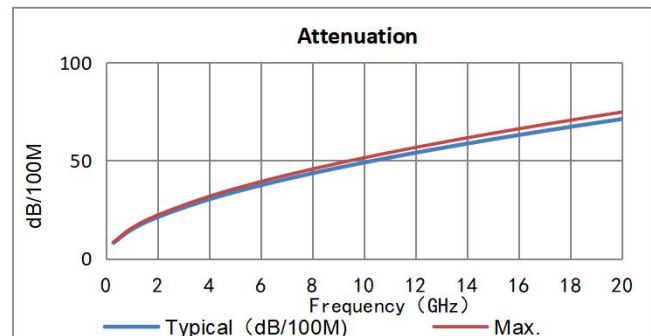
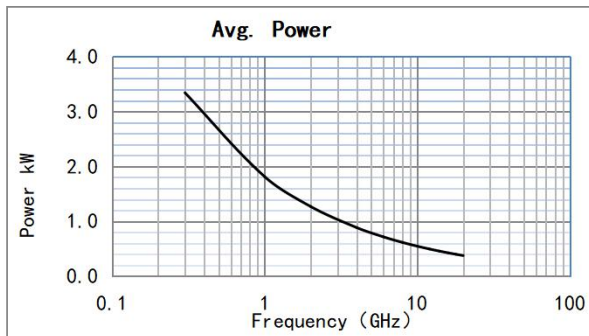
	Description	Size (mm)	Tol.	Materials
1	Center conductor	2.30	±0.03	Silver Plated Copper
2	Dielectric	6.25	±0.05	LD PTFE
3	Outer conductor	6.57	±0.05	Silver Plated Copper Foil
4	Outer shield	7.15	±0.10	Silver Plated Copper
5	Jacket	7.80	±0.15	FEP Gray or customize
6	Armored Layer	N/A	N/A	N/A
7	Anti Twist Layer	N/A	N/A	N/A
8	Waterproof Layer	N/A	N/A	N/A
9	PTFE Braiding Layer	10.50	±0.15	Colorful or Customized

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	50
Bend Radius:repeated (mm)	125
Weight (g/m)	310
Temp. Operating&Installation (°C)	-55~165
Cutoff Frequency(GHz)	19

## Electrical Specifications

Operation Frequency (GHz)	18	Bending phase	±5°@18GHz
Impedance (Ohms)	50	Temp. phase	600PPM (-55~85)
Velocity of Propagation	83%	Mech. phase	±0.1 @18GHz
Shielding Effectiveness (dB)	≥90		
Voltage Withstand (V,DC)	3600		



## 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	20000
dB/100 m	8.0	14.8	21.1	30.2	37.3	43.4	48.9	53.9	58.6	63.0	67.1	71.1
Avg.Power kW	3.341	1.812	1.269	0.886	0.716	0.615	0.547	0.496	0.456	0.425	0.398	0.376
K1=	0.4563799					K2=	0.0003280					

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

Maximum attenuation is 10% higher.

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