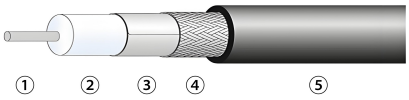
Ultra-Low Loss Phase Stable Coaxial Cable, RCA800
DC-18GHz, ø7.8mm, P-Grade, Low Loss



01

Dimensions(mm) Tolerance±1%



02

Electrical & Environmental

Frequency Range	DC-18GHz
Impedance	50 Ohms
CW power@25℃	507W @18GHz, 1309W @3GHz
Attenuation@Length 1m	0.67 dB Max @18GHz
Dk	1.45
Capacitance	80 pF/m
Inductance	0.17 uH/m
VOP	83%
SE	90dB Min
Voltage	2500V@DC
Temp. Phase	750PPM Max
OT	-55 ~ +165℃

03

Product Information

Product Number	RCA800, P-Grade
Product Type	Ultra-Low Loss Phase Stable Coaxial Cable
Bend Radius (Inst.)	39.00mm
Bend Radius (Rep.)	78.00mm
Net Weight	About 130.0g per meter

04

RFTOP P/N and Packaging

RFTOP P/N	Length	Packaging
RCA800-10M	10 m	Sealed bag
RCA800-300M	300 m	Wooden Reel

RCA800 Structure Characteristics		
Structure	**Material**	**Diameter**
1.Center Conductor	Single-core Silver-plated Copper	2.30 mm
2.Dielectric	LD-PTFE	6.30 mm
3.Inner shield	Silver-plated Copper Tape Wrapping	6.60 mm
4.Outer Shield	Silver-plated Copper Wire Braiding	7.15 mm
5.Jacket	Gray FEP	7.80 mm
Frequency(MHz)	**ATTEN(dB/100M)**	**Avg Power(W)**
300	8.00	4245
500	10.36	3277
1000	14.75	2302
2000	21.05	1614
2450	23.37	1453
3000	25.95	1309
4000	30.14	1127
6000	37.26	911
8000	43.37	783
10000	48.83	695
12400	54.78	620
18000	66.98	507
dB/100M=K1× sqrt(FMHz) + **K2**× FMHz		
K1=0.4563 , **K2**=0.00032 , **P3**=33960		
RCA800 Replacement Model		
Micro-Coax	UFB311A	
IW	2801	