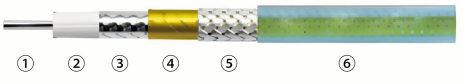
High-Power Low Loss Phase Stable Coaxial Cable, RCB635
DC-23GHz, ø6.35mm, P-Grade, High Power



01

Dimensions(mm) Tolerance±1%



02

Electrical & Environmental

Frequency Range	DC-23GHz
Impedance	50 Ohms
CW power@25℃	193W @23GHz, 577W @3GHz
Attenuation@Length 1m	1.17 dB Max @23GHz
Capacitance	88 pF/m
VOP	76%
SE	100dB Min
Voltage	2500V@DC
Temp. Phase	1500PPM Max
OT	-55 ~ +200°C

03

Product Information

Product Number	RCB635, P-Grade
Product Type	High-Power Low Loss Phase Stable Coaxial Cable
Bend Radius (Inst.)	31.50mm
Bend Radius (Rep.)	63.00mm
Net Weight	About 90.0g per meter

04

RFTOP P/N and Packaging

RFTOP P/N	Length	Packaging
RCB635-10M	10 m	Sealed bag
RCB635-300M	300 m	Wooden Reel

RCB635 Structure Characteristics		
Structure	**Material**	**Diameter**
1.Center Conductor	Single-core Silver-plated Copper	1.57 mm
2.Dielectric	LD-PTFE	4.70 mm
3.Inner shield	Silver-plated Copper Tape Braiding	4.90 mm
4.Interlayer	Aluminum Foil Longitudinal Wrapping	5.04 mm
5.Outer Shield	Silver-plated Copper Wire Braiding	5.55 mm
6.Jacket	Light Blue FEP	6.35 mm
Frequency(MHz)	**ATTEN(dB/100M)**	**Avg Power(W)**
300	12.00	1884
500	15.56	1453
1000	22.18	1020
2000	31.72	713
2450	35.24	642
3000	39.17	577
4000	45.54	497
6000	56.43	401
8000	65.79	344
10000	74.18	305
12400	83.36	271
18000	102.24	221
dB/100M=**K1**× sqrt(FMHz) + **K2**× FMHz		
K1=0.682743 , **K2**=0.000591 , **P3**=22614		
RCB635 Replacement Model		
Times	SFT304	