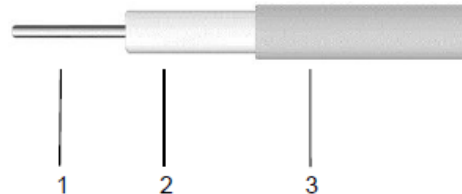


SC-034-NbTi

High Performance Low-Loss Niobium-Titanium Semi-Rigid Cable

Features&Benefits

- Solid PTFE Core
- Ultra Low Operating Temperature
- Ultra-low Thermal Conductivity
- Non-Magnetic



Construction Specification

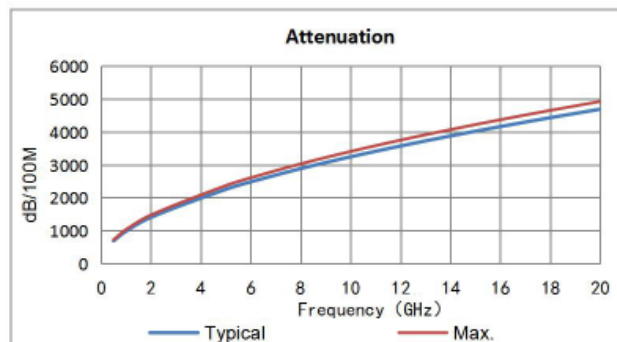
	Description	Size (mm)	Tol.	Material
1	Center conductor	0.203	±0.015	Niobium-Titanium Alloy
2	Dielectric	0.630	±0.02	Solid PTFE
3	Outer conductor	0.860	±0.02	Seamless Niobium-Titanium Alloy Tube

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	4
Bend Radius:repeated (mm)	N/A
Weight (g/m)	3
Temp, Operating&Installation (°C)	-270~-125

Electrical Specifications

Operation Frequency (GHz)	20
Impedance (Ohms)	50
Velocity of Propagation	70%
Voltage Withstand (V,DC)	300



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

Frequency MHz	500	1000	2000	5000	6000	8000	10000	12000	14000	16000	18000	20000
dB/100 m	698	993	1414	2266	2491	2894	3254	3582	3886	4172	4442	4700

K1= 24.31603

K2= 0.00106

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