



Features

- Low VSWR
- Low Loss
- Perfect Shielding Effectiveness

Applications

- Wireless Mobile Communication
- Base Stations
- Cellular
- Microwave and Broadcast Applications

Specifications

Electrical

Impedance	50±1Ω	
Velocity of Propagation	88%	
Capacitance	78 pF/m	
Maximum Operating Frequency	5 GHz	
Cut-off Frequency	5.3 GHz	
Peak Power	99.5 kW	
Inner Conductor DC-Resistance	≤3 Ω/km	
Outer Conductor DC-Resistance	≤1.4 Ω/km	
Inductance	0.195 μH/m	
DC Breakdown Voltage	6000 V	
Jacket Spark Voltage(rms)	8000 V	
Return Loss(800~1000MHz)	≥26dB	VSWR ≤1.1
Return Loss(1700~2200MHz)	≥24dB	VSWR ≤1.13
Insulation Resistance	≥10 GΩKm	
Passive Intermodulation	≥160 dBc	

Environmental & Mechanical

Cable Weight	386 Kg/KM
Tensile Strength	2000 N
Bending Moment	9 Nm
Flat Plate Crush Strength	14 N/mm
Min. Bending Radius Single	90 mm
Min. Bending Radius Repeated	125 mm
No. of Bends, Minimum(Typical)	20(50)
Recommended Clamp Spacing	1 m
Installation Temperature	-40°C~+60°C
Operating Temperature	-55°C~+85°C
Storage Temperature	-70°C~+85°C

Attenuation & Average Power @20°C (sea level)

Frequency(MHz)	100	450	800	900	1000	1800	1900	2100	2200	2300	2500	2700	3000
Attenuation(dB/100m)	1.23	2.72	3.7	3.95	4.18	5.8	5.98	6.33	6.5	6.66	6.99	7.31	7.77
Power Handling(kW)	7.05	3.18	2.34	2.2	2.08	1.49	1.45	1.37	1.33	1.3	1.25	1.2	1.12

Construction

Inner Conductor	Corrugated Copper Tube	9.35 mm
Dielectric	Physically Foamed Polyethylene	22.5 mm
Outer Conductor	Corrugated Copper Tube	24.5 mm
Outer Jacket	PE or LSZH	27.5 mm

Ordering Information

7/8" - TFSF	-	X	-	XXXX	-	X
Cable Code						
Maximum Frequency(GHz)						
RF Connectors						
Overall Length(meter(s))						

For other connector options, contact factory.