



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	81%	
Capacitance	80 pF/m	
Maximum Operating Frequency	10.2 GHz	
Cut-off Frequency	13 GHz	
Peak Power	19 kW	
Inner Conductor DC-Resistance	≤2.8 Ω/km	
Outer Conductor DC-Resistance	≤3.8 Ω/km	
Inductance	0.200 μH/m	
DC Breakdown Voltage	2500 V	
Jacket Spark Voltage(rms)	5000 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	170 Kg/Km
Tensile Strength	1000 N
Bending Moment	3 Nm
Flat Plate Crush Strength	15 N/mm
Min. Bending Radius Single	15 mm
Min. Bending Radius Repeated	30 mm
No. of Bends, Minimum(Typical)	20(50)
Recommended Clamp Spacing	0.8 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)	3	6.8	9.3	9.9	10.5	14.6	15	15.87	16.3	16.73	17.6	18.4	19.5
Power Handling(kW)	2.6	1.23	0.91	0.85	0.81	0.58	0.58	0.54	0.53	0.52	0.49	0.47	0.44

Construction

Inner Conductor	Copper Clad Aluminium Wire	3.55 mm
Dielectric	Physically Foamed Polyethylene	9.00 mm
Outer Conductor	Corrugated Copper Tube	12.1 mm
Outer Jacket	PE or LSZH	13.4 mm

Ordering Information

1/2" - TFSF - X - XXXX - X

Cable Code

Maximum Frequency(GHz)

RF Connectors

Overall Length(meter(s))

For other connector options, contact factory.

Outline

