

CONSTRUCTION		
Inner Conductor	Material	CCA
	Diameter (mm)	4.80±0.05
Insulation	Material	Foamed PE
	Diameter (mm)	12.2±0.2
Outer Conductor	Material	Annular corrugated copper tube
	Diameter (mm)	13.8±0.15
Jacket	Material	LLDPE
	Min.thickness (mm)	>0.8
	Diameter (mm)	15.8±0.2

ELECTRICAL COMPONENTS	
Inner conductor DC resistance (Ω/km)	≤1.6
Outer conductor DC resistance (Ω/km)	≤3.25
Characteristic impedance (Ω)	50±1.5
Capacitance (p F/m)	76±2
Velocity (%)	85
DC Durable Voltage (KV)	4.0
Insulation resistance (MΩ/km)	>1×104



ORDERING INFORMATION	
STF50-LSZH-1/2	Black 50 ohm Standard 1/2" Cable
SFLEX50-LSZH-1/2	Black 50 ohm Superflex 1/2" Cable



Features/Benefits

- High Power Rating
- Outstanding Intermodulation Performance
- Low VSWR contributes to low system noise
- Long term operating life at high transmit power levels
- Low Attenuation - results in highly efficient signal transfer
- Outstanding heat transfer properties and temperature stabilized dielectric materials
- Solid outer conductor creates a continuous RFI/EMI shield to minimize system interference
- Applications - feedlines for broadcast and terrestrial microwave antennas, wireless cellular, PCS and ESMR base stations, cabling of antenna arrays, radio equipment interconnects, OEM jumpers, Main feed transitions, and GPS lines



1/2" STF 50

Low-Loss Foam-Dielectric Coaxial Cable

PERFORMANCE			
Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100ft)	Average Power Rating (kW)
100	2.17	0.66	3.94
150	2.67	0.81	3.17
200	3.10	0.94	2.75
280	3.69	1.12	2.27
450	4.74	1.44	1.80
700	6.01	1.83	1.42
800	6.45	1.97	1.33
900	6.87	2.09	1.25
1000	7.28	2.22	1.18
1500	9.08	2.77	0.95
1800	10.05	3.06	0.86
2000	10.66	3.25	0.81
2100	10.96	3.34	0.79
2200	11.24	3.43	0.77
2300	11.54	3.52	0.75
2400	11.80	3.60	0.75
2500	12.08	3.68	0.73
2600	12.36	3.77	0.71
3000	13.39	4.08	0.65
3400	14.40	4.39	0.60
3500	14.66	4.47	0.59
3700	15.12	4.61	0.58
4000	15.82	4.82	0.55
5000	18.01	5.49	0.48
6000	20.05	6.11	0.43
8000	23.83	7.26	0.37
8800	25.25	7.70	0.34

MECHANICAL CHARACTERISTICS		
Bending Radius (mm)	Single Bend	80
	Repeated Bend	125
Tensile strength(N)		1000
Cable weight(kg/km)		180
Recommended temperature (°C)	Storage	-45~+85
	Installation	-45~+85
	Operating	-45~+85

VSWR	
800MHz~1000MHz ≤1.10	2.031
1700MHz~1900MHz ≤1.13	2.169
1900MHz~2200MHz ≤1.13	2.256
2200MHz~2500MHz ≤1.13	2.673
2500MHz~2700MHz ≤1.15	2.887

Standard Conditions:

- For attenuation: VSWR 1.0, cable temperature 20 °C (68 °F)
- For average power: VSWR 1.0 ambient temperature 40 °C (104 °F)
- Inner conductor temperature 100 °C (212 °F) - No solar loading
- Maximum attenuation value shall be 105% off the nominal attenuation value.

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