

SYNERGY TELECOM PVT. LTD

(1-5/8" SF Cable



Construction Materials and Dimensions

Inner Conductor	Helix Corrugated Copper Tube	17.30mm
Dielectric	Foam PE	43.00mm
Outer Conductor	Annularly Corrugated Copper Tube	46.50mm
Jacket	Black Low Smoke Halogen-Free Flame Retardant Polyolefin	49.80mm

Mechanical Characteristics

Single Bending Radius	Min.	280mm
Repeated Bending Radius	Min.	500mm
Number of Bends	Min.	15 times
Tensile Strength	Max.	2500N

Electrical Characteristics

Impedance	Nom.	50Ω
Velocity	Nom.	88%
Capacitance	Nom.	76pF/m
Dielectric Withstand Voltage	DC 1min	15000V
Insulation Resistance	DC 500V, 1min, Min.	10000MΩ·km
Jacket Spark Test Voltage (rms)	AC	10000V
DC Resistance, Inner Conductor	Max.	1.65Ω/km
DC Resistance, Outer Conductor	Max.	0.85Ω/km
Cut off Frequency		2.7GHz
Peak Power Rating		305kw

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VSWR Typical Value

800~1000MHz	1.15
1700~2200MHz	1.15
2300~2500MHz	1.15

*Contact TD for your VSWR performance specification for your required frequency band.

Attenuation

Frequency (MHz)	Attenuation (dB/100m, Max.)
150	0.91
350	1.45
450	1.68
800	2.33
900	2.50
1000	2.66
1700	3.67
1800	3.80
2000	4.06
2100	4.19
2200	4.31
2400	4.55
2500	4.67

*At 20°C. Contact TD for your performance specification for your required frequency.

Environmental Characteristics

Storage temperature	-30~+70°C
Installation temperature	-25~+60°C
Operation temperature	-30~+70°C