Synergy Telecom P Ltd.

7/8 □ low less leaky coaxial cable

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Overlapping Copper Foil
Jacket	Low Smoke Halogen-free Fire-retardant
Jacket Color	Black

PHYSICAL DIMENSIONS	
Nominal Size	7/8"
Inner Conductor Diameter	9.33 mm | 0.3673"
Dielectric Diameter	22.80 mm | 0.8976"
Outer Conductor Diameter	23.20 mm | 0.9134"
Diameter Over Jacket	27.20 mm | 1.0709"

MECHANICAL SPECIFICATIONS	
Single Bending radius	90 mm
Multiple bending radius	250 mm
Minimum Distance to Wall	50 mm
Tensile Strength	1350 N
Bending Moment	14.9N.m
Cable weight	475g/m
Recommended Hanger Spacing	0.8~1.2m

ENVIRONMENTAL SPECIFICATION	
Storage Temperature	- 55 ℃ ~ + 85 ℃
Installation Temperature	- 40 ℃ ~ + 80 ℃
Operating Temperature	- 55 ℃ ~ + 85 ℃
Relative Humidity	95%
ROHS	YES

ELECTRICAL SPECIFICATION		
Capacitance		75.0 pF/m
Impedance		50±2 Ω
Velocity		89%
Insulation Resistance		＞10000 MΩ•km
Jacket Spark		8 KV
Insulation Voltage		10 KV
Inner Conductor DC Resistance		1.80 Ω/km
Outer Conductor DC Resistance		3.20 Ω/km
Stop Band		250~280MHz & 500~560MHz &750-806MHz
Operating Frequency Band		5~1000 MHz
VSWR	75~150 MHz	≤1.30
	300~500 MHz	≤1.30
	560~750 MHz	≤1.30
	806~960 MHz	≤1.30

ELECTRICAL PERFORMANCE

Frequency	Attenuation		Coupling Loss (2m)	
MHz	dB/100 m	dB/100 ft	50%(dB)	95%(dB)
75	1.30	0.40	60	70
100	1.60	0.49	62	66
150	1.90	0.58	63	73
350	3.00	0.91	62	65
450	3.50	1.07	65	70
700	4.30	1.31	61	66
800	4.70	1.43	60	62
900	5.00	1.52	58	61
960	5.30	1.62	58	60

Standard Conditions		*Polarization*	
Fire Retardancy Test Method	*IEC 60332-1*	*5-290MHz*	*radial*
Smoke Index Test Method	*IEC 61034*	*290-1000MHz*	*vertical*
Toxicity Index Test Method	*IEC 60754-1 | IEC 60754-2*	*Regulatory Compliance/Certification*	
Attenuation Test Method	*IEC 61196-4*	*ISO 9001*	*PASS*
Attenuation Test Tolerance	*±5%*	*ISO 14001*	*PASS*
Attenuation,Ambient Temperature	*20 ℃|68 ℉*	*OHSAS 18001*	*PASS*
Coupling Loss Test Method	*IEC 61196-4*	*CE*	*PASS*
Coupling Loss Tolerance	*±5dB*		

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