



# Synergy Telecom P Ltd.

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Synergy Telecom (P) Ltd Synerg ¼" Flex Cable - Synergy Telecom (P) Ltd Synergy Telecom (P) Ltd



CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE or Low Smoke Halogen-free Fire-retardant

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	2.60 mm
Dielectric Diameter	6.45 mm
Outer Conductor Diameter	7.70 mm
Diameter Over Jacket	9.00 mm

### MECHANICAL SPECIFICATIONS

Minimum Bending Radius	
Single Bending	38 mm
Repeated Bending	76 mm
Minimum Number of Bends	15
Tensile Strength	530 N(119 lb)

### ENVIRONMENTAL SPECIFICATION

Storage Temperature	-55 °C ~ +85 °C
Installation Temperature	-40 °C ~ +60 °C
Operating Temperature	-55 °C ~ +85 °C

### ELECTRICAL SPECIFICATION

Capacitance	78.0 pF/m(23.8 pF/ft)
Impedance	50±1 Ω
Velocity	86%
RF Peak Voltage	0.83 KV
Peak Power Rating	11 KW
Cut-off Frequency	18.6 GHz
Shielding Effectiveness >10MHz	>120 dB
Insulation Resistance	5000 MΩ·km
VSWR	
0.8~1.0 GHz	≤ 1.10
1.7~2.4 GHz	≤ 1.10

### PERFORMANCE

Frequency MHz	Attenuation		Average Power Rating (KW)
	dB/100 m	dB/100 ft	
100	4.05	1.23	1.87
150	5.00	1.52	1.51
200	5.80	1.77	1.30
280	7.05	2.15	1.07
450	8.90	2.71	0.85
800	12.10	3.69	0.62
900	12.80	3.90	0.58
1000	13.60	4.15	0.55
1500	17.00	5.18	0.44
1800	18.90	5.76	0.40
2000	20.00	6.10	0.37
2200	21.10	6.43	0.35
2400	22.30	6.80	0.34
2500	23.00	7.01	0.34
3000	25.20	7.68	0.30
3400	27.00	8.24	0.28
4000	29.70	9.06	0.25
5000	33.90	10.30	0.22

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