

PRODUCT SPECIFICATIONS

FLEXIBLE RF COAXIAL CABLE 7/8"



MODEL JRT-CAB-COA-50-22-7/8

CONSTRUCTION MATERIALS	
Inner Conductor	Smooth Copper Tube
Dielectric	Physical Foam Polyethylene
Outer Conductor	Corrugated Copper Tube
Jacket	Black PE

PHYSICAL DIMENSIONS	
Inner Conductor Diameter	9.00 mm
Dielectric Diameter	22.30 mm
Outer Conductor Diameter	24.90 mm
Diameter Over Jacket	27.50 mm

MECHANICAL SPECIFICATIONS	
Minimum Bending Radius	
Single Bending	90 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1470 N (325lb)

ELECTRICAL SPECIFICATIONS	
Capacitance	75.0 pF/m(22.9 pF/ft)
Impedance	50±1 Ω
Velocity	89%
RF Peak Voltage	3.00 kV
Peak Power Rating	91 kW
Cut-off Frequency	5.20 GHz
Shielding Effectiveness >10MHz	>120 dB
Insulation Resistance	5000 MΩ•km
VSWR	
0.8~1.0 GHz	≤1.10
1.7~2.2 GHz	≤1.13
2.2~2.7 GHz	≤1.15

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

PERFORMANCE			
FREQUENCY	ATTENUATION		AVERAGE
MHz	dB/100m	dB/100ft	Power Rating (kW)
100	1.19	0.36	8.62
150	1.47	0.45	7.20
200	1.71	0.52	5.99
280	2.05	0.62	4.94
450	2.64	0.80	3.88
800	3.62	1.10	2.83
900	3.87	1.18	2.65
1000	4.10	1.25	2.50
1500	5.16	1.57	1.99
1800	5.73	1.75	1.79
2000	6.09	1.86	1.68
2200	6.44	1.96	1.59
2400	6.78	2.07	1.54
2500	6.95	2.12	1.50
3000	7.74	2.36	1.33

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)