

DATA SHEET



RF Cable

SDY-50-12 (1/2")



Description

SDY-50-12(1/2") Air Dielectric Cable

Mechanical Performance

Inner conductor	Copper-Clad Aluminum Wire	4.8mm
Dielectric	Extruded Polyethylene	11.8mm
Outer conductor	Corrugated copper tube	13.8mm
Outer Jacket	PE	15.9mm
Weight		260kg/km
Min. Bending Radius(single)		80mm
Min. Bending Radius(multiple)		127mm
Number of bends(minimum)		15
Operating temperature		-45°C ~ +85°C
Installation temperature		-40°C ~ +60°C

Electrical Performance

Impedance		50
Velocity of Propagation		89%
Maximum Frequency		6GHz
Peak Power Rating		40kW
DC Breakdown Voltage		1.9kV
Capacitance		75pF/m
VSWR	550kHz ~ 1600kHz	≤1.06
	87MHz ~ 108MHz	≤1.08
	470MHz ~ 870MHz	≤1.12

Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
2	0.31	25.20
10	0.71	11.20
30	1.24	6.40
88	2.15	3.68
100	2.30	3.44
108	2.39	3.31
150	2.84	2.79
200	3.30	2.39
300	4.10	1.93
400	4.78	1.65
500	5.39	1.47
600	5.96	1.33
700	6.48	1.22
800	6.98	1.13
960	7.72	1.02
1000	7.90	1.00

Attenuation at 20°C (68°F) cable temperature, maximum value shall be 105% of the nominal attenuation value.

Average power rating at 40°C (104°F) ambient temperature.

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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