

DATA SHEET



RF Cable

SDY-50-80(3-1/8")



Description

SDY-50-80(3-1/8") Air Dielectric Cable

Standard

Q/12JD 6350-2017

Mechanical Performance

Inner conductor	Corrugated copper tube	34.7mm
Dielectric	PE strip	75.2mm
Outer conductor	Corrugated copper tube	85.4mm
Outer Jacket	PE	91.0mm
Weight		3538kg/km
Min. Bending Radius(single)		380mm
Min. Bending Radius(multiple)		1100mm
Number of bends(minimum)		15
Operating temperature		-45°C ~ +85°C
Installation temperature		-40°C ~ +60°C

Electrical Performance

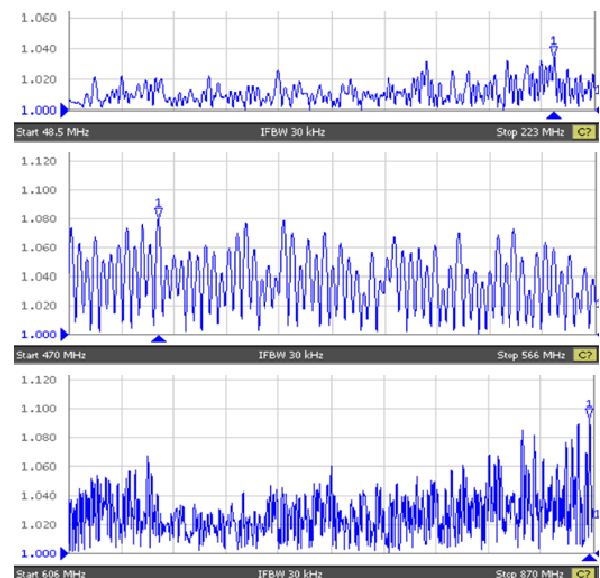
Impedance		50±0.5Ω
Velocity of Propagation		96%
Maximum Frequency		1.55GHz
Peak Power Rating		940KW
DC Breakdown Voltage		9.7KV
Capacitance		70pF/m
VSWR	550kHz ~ 1600kHz	≤1.06
	87MHz ~ 108MHz	≤1.08
	470MHz ~ 862MHz	≤1.10

Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
2	0.05	300.0
88	0.34	58.3
108	0.38	52.5
174	0.48	41.1
200	0.52	38.3
450	0.81	25.4
500	0.86	24.1
600	0.95	22.0
700	1.03	20.4
800	1.11	19.1

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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