

# DATA SHEET



RF Cable

SDY-50-40(1-5/8")



## Description

SDY-50-40(1-5/8") Air Dielectric Cable

## Standard

Q/12JD 6350-2017

## Mechanical Performance

Inner conductor	Corrugated copper tube	18.5mm
Dielectric	PE strip	39.7mm
Outer conductor	Corrugated copper tube	46.5mm
Outer Jacket	PE	51.0mm
Weight		1545kg/km
Min. Bending Radius(single)		180mm
Min. Bending Radius(multiple)		550mm
Number of bends(minimum)		15
Operating temperature		-45°C ~ +85°C
Installation temperature		-40°C ~ +60°C

## Electrical Performance

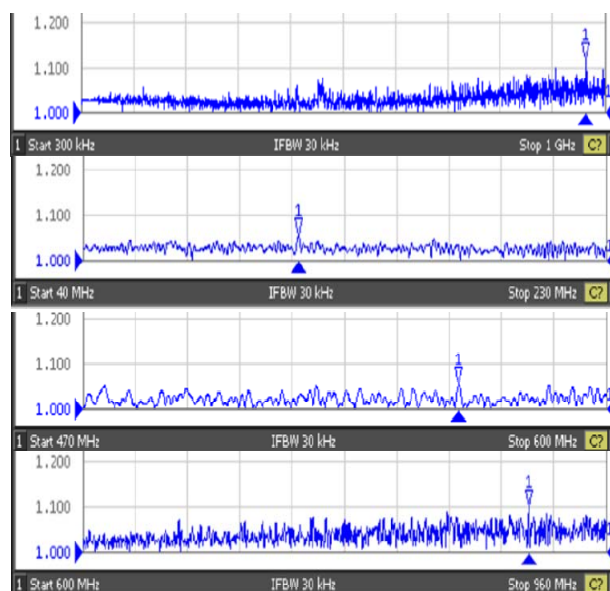
Impedance		50±0.5Ω
Velocity of Propagation		95%
Maximum Frequency		3GHz
Peak Power Rating		270KW
DC Breakdown Voltage		5.2KV
Capacitance		71pF/m
VSWR	550kHz ~ 1600kHz	≤1.06
	87MHz ~ 108MHz	≤1.08
	470MHz ~ 862MHz	≤1.10

## Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
2	0.09	130.0
88	0.58	20.9
100	0.62	19.5
108	0.64	18.9
174	0.82	14.8
200	0.88	13.8
450	1.33	9.2
500	1.40	8.7
600	1.54	7.9
700	1.67	7.4
800	1.79	6.9

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.

Tianjin Zhonghuan Ascend Technologies Co., Ltd.  
No.71 Taihua Road, Economic-technical Development Zone,  
Tianjin, P.R.China  
P.C.: 300457

TEL: +86-022-59886766  
FAX: +86-022-25322909  
E-MAIL: ascend@china-ascend.com