

# DATA SHEET



RF Cable

SDY-50-22(7/8")



## Description

SDY-50-22(7/8") Air Dielectric Cable

## Standard

Q/12JD 6350-2017

## Mechanical Performance

Inner conductor	Smooth copper tube	9.3mm
Dielectric	PE strip	20.8mm
Outer conductor	Corrugated copper tube	25.2mm
Outer Jacket	PE	29.0mm
Weight		786kg/km
Min. Bending Radius(single)		90mm
Min. Bending Radius(multiple)		300mm
Number of bends(minimum)		15
Operating temperature		-45°C ~ +85°C
Installation temperature		-40°C ~ +60°C

## Electrical Performance

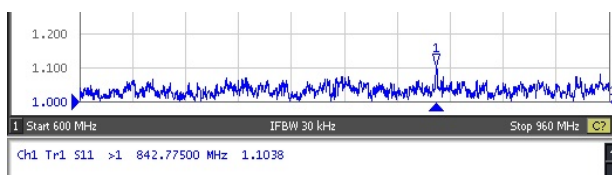
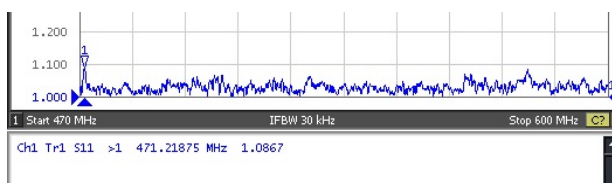
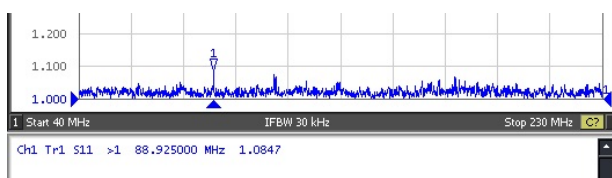
Impedance		50±1Ω
Velocity of Propagation		93%
Maximum Frequency		3GHz
Peak Power Rating		72.9KW
DC Breakdown Voltage		2.7KV
Capacitance		71pF/m
VSWR	550kHz ~ 1600kHz	≤1.06
	87MHz ~ 108MHz	≤1.08
	470MHz ~ 862MHz	≤1.10

## Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (kw)
2	0.16	61.0
88	1.10	9.0
100	1.18	8.3
108	1.23	8.0
174	1.57	6.0
200	1.69	5.0
450	2.50	4.0
500	2.70	3.5
600	3.00	3.0
700	3.20	2.7
800	3.50	2.5

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.

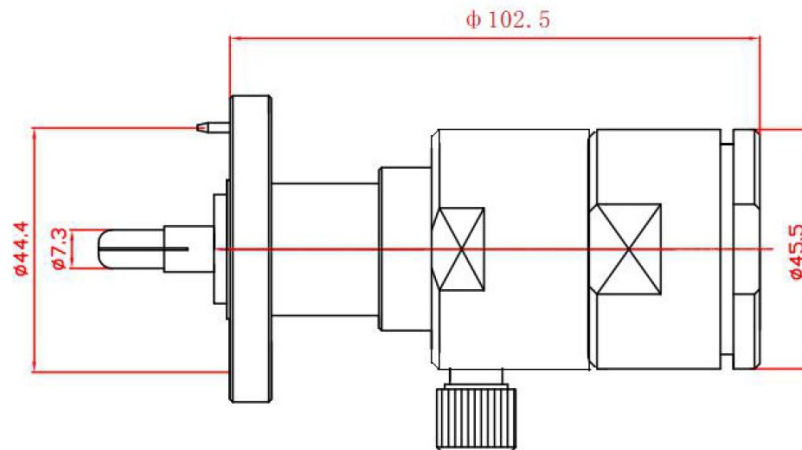


While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make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

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<b>DATA SHEET</b>	<b>ASCEND</b>
EIA Connector	IF45Q-J135



<b>Description</b>	
7/8 in EIA Male Gas Barrier Flange Connector for SDY-50-22(7/8") air dielectric cable.	

<b>General Specifications</b>	
Interface	7/8 in EIA Male
Body Style	Straight


<b>Electrical Specifications</b>	
Characteristic Impedance	50 ohm
Frequency Range	0 - 1 GHz
Insulation Resistance	$\geq 10000 \text{ M}\Omega$
Voltage Withstanding	5000 V
VSWR	$\leq 1.07$

<b>Mechanical Specifications</b>	
Durability	Mating cycles $\geq 500$
Separating force	$\leq 100\text{N}$

<b>Material and plating</b>		
<b>Piece parts</b>	<b>Material</b>	<b>Plating</b>
Contact Part	Beryllium Bronze/Tin Bronze	Silver or Gold
Insulator	PTFE	N/A
O-ring	Silicone Rubber	N/A
Other	Brass	Nickel or Silver

<b>Environmental Specifications</b>	
Operating Temperature	$-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$
Relative Humidity	$\leq 90\%$

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<b>DATA SHEET</b>	
EIA Connector	IF45Q-J135

<b>Packing</b>	
Standard	1pce in plastic bag & box.

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