

DATA SHEET



RF Cable

7/8" AL



Description

Standard cable	
7/8" aluminum cable with PE jacket	7/8" AL

Dimension

Inner conductor	Smooth Copper tube	9.30±0.1mm
Dielectric	Foamed PE	nom. 22.6mm
Outer conductor	Annular Corrugated Al tube	25.2±0.2mm
	Thickness	nom. 0.35mm
Outer Jacket	PE	28.0±0.6mm

Mechanical Specification

Min. Bending Radius(single)	155mm
Min. Bending Radius(multiple)	280mm
Number of bends(minimum)	15
Adhesive strength between inner conductor and insulation	100kgf/m
Flat Plate Crush strength	1kg/mm
Cable Weight	0.385kg/m

Environmental Specification

Operating temperature	-55°C ~ +85°C
Installation temperature	-40°C ~ +60°C
Storage Temperature	-70°C ~ +85°C

Electrical Performance

Impedance	50±1Ω
Cutoff Frequency	5.2GHz
Velocity of Propagation	88%
Peak Power	91kW
Insulation resistance	>1000MΩ·km
Dielectric strength	6000V
DC resistance	inner conductor 2.20Ω/km outer conductor 1.70Ω/km
Intermodulation (IM3, 2 x 20 W)	≤ -155 dBc

VSWR

30-2700MHz	≤1.15
3000-3900MHz	≤1.20

Attenuation

Frequency (MHz)	Max. Attenuation (dB/100m)
30	0.80
50	1.00
100	1.35
200	1.90
300	2.33
400	2.80
500	3.15
800	4.00
1000	4.50
1500	5.60
2000	6.60
2400	7.30
2700	7.80
3600	10.06
3900	10.66

Standard Conditions:

Attenuation: VSWR 1.0, 20°C 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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