

PRODUCT SPECIFICATION**BR-300****Braid Replacement Cable, 0.300 inch nominal size, 0.5 - 6000MHz****CHARACTERISTICS****Mechanical Specifications**

Minimum Bending Radius (in):	1.0000
Minimum Bending Radius (mm):	25.0000
Bending Moment (lb-ft):	0.5400
Bending Moment (N-m):	0.7300
Cable Weight (lb/ft):	0.0400
Cable Weight (Kg/m):	0.0600
Tensile Strength (lb):	120.0000
Tensile Strength (kg):	54.5000
Flat Plate Crush Strength (lb/in):	30.0000
Flat Plate Crush Strength (kg/mm):	0.5400

Electrical Specifications

Impedance (Ohms):	50.00
Maximum Frequency (GHz):	6.0000
Velocity (percent):	84.0000
dc Breakdown (volts):	1700.0000
Peak Power Rating (kW):	7.2000
Inner Conductor dc Resistance (ohms/1000 ft):	1.8000
Inner Conductor dc Resistance (ohms/1000 m):	5.9100
Outer Conductor dc Resistance (ohms/1000 ft):	3.5000
Outer Conductor dc Resistance (ohms/1000 m):	11.4900
Jacket Spark (volts RMS):	5000.0000
Insulation Resistance (MOhm):	100000.00
Capacitance (pF/ft):	24.0000
Capacitance (pF/m):	78.7000
Inductance (uH/ft):	0.0600
Inductance (uH/m):	0.2000

Construction Materials

Dielectric Type:	Braid Replacement Cable
Dielectric Material:	Ployethylene Foam
Inner Conductor Material:	Copper Wire
Outer Conductor Material:	Corrugated Aluminum

Dimensions

Diameter Inner Conductor (in):	0.0800
Diameter Inner Conductor (mm):	2.0100

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

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Braid Replacement Cable



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CHARACTERISTICS

Diameter Outer Conductor (in):	0.2500
Diameter Outer Conductor (mm):	6.4300
Diameter Dielectric (in):	0.2400
Diameter Dielectric (mm):	6.1000
Diameter Over Jacket (in):	0.3000
Diameter Over Jacket (mm):	7.6200

Environmental Specifications

Operating Temperature (C):	-40 to +80
Operating Temperature (F):	-40 to +176

General Specifications

Cable Grade:	Standard
Short Description:	Braid Replacement Cable, 0.300 inch nominal size

Available Connectors

Part Number	Connector Type	Special Characteristics	Inner Contact	Grade
BR300PNM-TC	N Male	N/A	Captivated	Standard

Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
0.5	0.123	0.404	7.20
1	0.174	0.572	7.20
1.5	0.214	0.701	7.20
2	0.247	0.810	7.20
10	0.554	1.819	3.64
20	0.787	2.581	2.57
30	0.966	3.168	2.09
50	1.251	4.105	1.61
88	1.669	5.476	1.21
100	1.782	5.846	1.13
108	1.854	6.081	1.09
150	2.194	7.198	0.92
174	2.368	7.770	0.85
200	2.545	8.349	0.79
300	3.140	10.301	0.64
400	3.648	11.968	0.55
450	3.880	12.730	0.52

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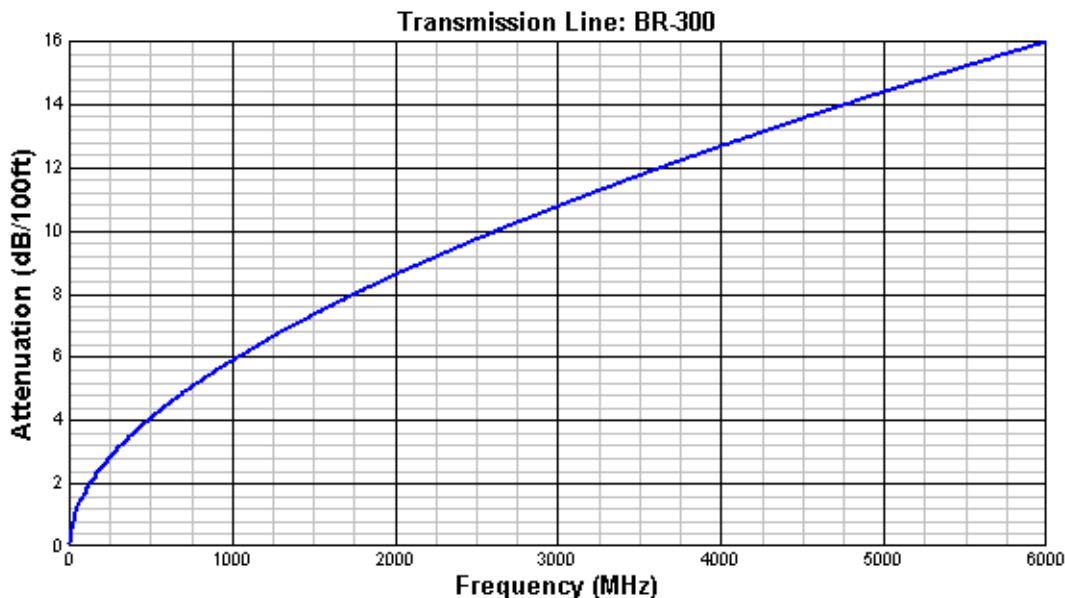
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Attenuation and Average Power Ratings

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)	Average Power (kW)
500	4.101	13.454	0.49
512	4.152	13.623	0.49
600	4.514	14.810	0.45
700	4.898	16.068	0.41
800	5.257	17.249	0.38
824	5.341	17.522	0.38
894	5.578	18.300	0.36
960	5.794	19.010	0.35
1000	5.922	19.430	0.34
1250	6.677	21.905	0.30
1500	7.369	24.176	0.27
1700	7.888	25.880	0.26
2000	8.622	28.285	0.23
2300	9.311	30.547	0.22
3000	10.790	35.401	0.19
4000	12.685	41.616	0.16
5000	14.404	47.256	0.14
6000	15.998	52.486	0.13



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Standard Conditions:

For Attenuation. VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power. VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.