



# Coral Cable

## PRODUCT SPECIFICATION

### Braid Replacement Cable

### BR-600

#### CHARACTERISTICS

##### Materials

Jacket	Polyethylene
Jacket Color	Black
Outer Conductor	Corrugated Aluminum
Dielectric	Polyethylene Foam
Inner Conductor	Copper-Clad Aluminum Wire

##### Mechanical

Nominal Size	0.600 inch
Diameter over Jacket, mm (in)	15.24 (0.6)
Diameter over Outer Conductor, mm (in)	13.87 (0.55)
Diameter over Foam Dielectric, mm (in)	13.46 (0.53)
Diameter over Inner Conductor, mm (in)	4.8 (0.19)
Cable Weight, kg/m (lb/ft)	0.14 (0.09)
Tensile Strength, kg (lb)	90.72 (200)
Flate Plate Crush Strength, kg/mm (lb/in)	0.89 (50)
Minimum Bending Radius, mm (in)	63.5 (2.5)
Bending Moment, N-m (lb-ft)	5.42 (4)

##### Environmental

Operating Temperature, °C (°F)	-40 to 80 (-40 to 176)
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##### Electrical

Impedance, ohms	50
Frequency, maximum, MHz	6,000
Pulse Reflection, maximum, %	0.5
Velocity, %	87
Peak Power Rating, kW	32.4
dc Resistance, Inner, ohms/km (ohms/kft)	1.51 (0.46)
dc Resistance, Outer, ohms/km (ohms/kft)	3.74 (1.14)
Capacitance, pF/m (pF/ft)	75.79 (23.1)
Inductance, μH/m (μH/ft)	0.19 (0.06)
dc Breakdown, volts	3,600
Jacket Spark, volts RMS	8000
Insulation Resistance, Mohm	100,000
Phase Trim, deg min/GHz	± 4.4

#### Attenuation and Average Power Ratings

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

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Frequency MHz	Attenuation dB/100m	Attenuation dB/100ft	Average Power, kW	Frequency MHz	Attenuation dB/100m	Attenuation dB/100ft	Average Power, kW
0.5	0.166	0.051	32.4	824	7.39	2.25	0.978
1	0.235	0.072	30.7	894	7.72	2.35	0.935
1.5	0.289	0.088	25.0	960	8.03	2.45	0.900
2	0.333	0.102	21.7	1,000	8.21	2.50	0.880
10	0.750	0.229	9.63	1,250	9.28	2.83	0.778
20	1.07	0.325	6.78	1,500	10.3	3.13	0.703
30	1.31	0.399	5.52	1,700	11.0	3.36	0.656
50	1.70	0.518	4.25	2,000	12.1	3.68	0.598
88	2.27	0.692	3.18	2,300	13.1	3.98	0.553
100	2.43	0.739	2.98	3,000	15.2	4.64	0.475
108	2.52	0.769	2.86	4,000	18.0	5.48	0.401
150	2.99	0.912	2.41	5,000	20.5	6.26	0.352
174	3.23	0.985	2.23	6,000	22.9	6.98	0.315
200	3.48	1.06	2.08				
300	4.30	1.31	1.68				
400	5.01	1.53	1.44				
450	5.33	1.63	1.35				
500	5.64	1.72	1.28				
512	5.71	1.74	1.26				
600	6.22	1.90	1.16				
700	6.76	2.06	1.07				
800	7.27	2.21	0.994				

#### 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.

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