

### Cable Specifications

#### 75 Ohm Radiating Cable 5/8"

Description	Product Number
<b>Standard Cable</b>	
5/8", Black Polyethylene Jacket	AR058J75
<b>Fire Retardant Cable</b>	
5/8", Low-Smoke, Non-Halogenated, Fire Retardant Jacket, IEC332-1	AR058FX75
<b>Riser Rated Cable</b>	
5/8", Low-Smoke, Non-Halogenated, Fire Retardant Jacket, IEC332-1, IEC332-3C, UL-1666, CMR	AR058R75
<b>Physical Dimensions</b>	
Center Dia., in (mm)	0.185 (4.70)
Dia. Over Dielectric, in (mm)	0.712 (18.08)
Dia. Over Outer Conductor, in (mm)	0.760 (19.30)
Max. Dia. Over Jacket, in (mm)	0.840 (21.34)
Center Conductor	Copper Clad Aluminum
Outer Conductor	Dual Slotted Solid Aluminum Tube
<b>Electrical Characteristics</b>	
Maximum Frequency, GHz	8
Peak Power Rating, KW	65
DC Res, Ohms/1000 ft (1000m)	
Center	0.46 (1.51)
Outer	0.32 (1.05)
DC Breakdown, kV	5.0
Capacitance, pF/ft (m)	14.9 (48.9)
Inductance, mH/ft (m)	0.082 (0.269)
Jacket Spark, kV RMS	8
Typical VSWR	1.3
Impedance, Ohms	75
Velocity of Propagation	91%
<b>Mechanical Characteristics</b>	
Min. Bend. Rad., in (mm) – Single	3 (76.2)
Min. Bend. Rad., in (mm) – Multiple	8 (203)
Cable Weight, lb/ft (kg/m)	0.197 (0.302)
Bending Moment, ft.lb (N'm)	21 (2.90)
Tensile Strength, lb (kg)	920 (417)
Flat Plate Crush, lb/in (kg/mm)	140 (2.50)
Number of Bends	20
Temperature, °F (°C)	
Recommended Install	-40 to 170 (-40 to 77)
Recommended Storage	-94 to 170 (-70 to 77)
Operating	-40 to 170 (-40 to 77)

Frequency MHz	Attenuation and Coupling Loss	
	**Attenuation dB/100 ft	*Coupling Loss dB
30	0.32	58
50	0.41	58
88	0.54	58
100	0.59	58
108	0.61	58
150	0.72	61
174	0.77	58
200	0.83	57
300	1.02	56
400	1.18	58
450	1.26	58
500	1.33	58
512	1.34	58
600	1.46	59
700	1.58	60
800	1.69	60
824	1.71	61
894	1.78	61
960	1.85	64
1000	1.90	64
1250	2.10	64
1500	2.30	67
1700	2.47	69
1920	2.60	71
2000	2.68	71
2300	2.80	74
3000	3.20	75

**Standard conditions:**

\*50% Coupling Loss at 6 ft (2 m), ± 10 dB

\*\*Attenuation ± 10% at 68°F

