



**Technical Specifications**

**Product Line: RG8-CMP**

**Description**

10 AWG solid core bare copper dual shielded RG8 coaxial cable  
NEC type CMP and CEC type CMP FT6. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725, 800 and 820.

**Conductor**

10 AWG  
Solid annealed bare copper conductors  
Diameter: 0.108" | 2.74mm

**Electrical**

DC resistance: 0.90  $\Omega$  / 1000' | 2.95  $\Omega$ /KM  
Shield DCR: 2.92  $\Omega$  / 1000' | 9.58  $\Omega$ /KM  
Mutual capacitance: 24.2 pF/FT | 79.4 pF/M  
Impedance: 50  $\pm$  3  $\Omega$   
Velocity of Propagation: 83%  
Voltage rating: 300V  
Cutoff frequency: 16.2 GHz

**Insulation**

Cellular fluoropolymer  
Wall thickness: 0.086" | 2.18mm  
Diameter: 0.280" | 7.11mm

**Regulatory**

NEC: CMP 125 °C  
CEC: CMP FT6 125 °C  
EU RoHS 2002/95/EC Compliant

**Color Code**

Natural

**Packages**

Reel: 1000' | 305M  
Weight: 93 Lbs/1000' | 138 Kg/KM

**Assembly**

N/A

**Installation**

Pull Tension: 174 Lbs | 773 N  
Bend radius: 3.38" | 86mm unloaded  
Bend radius: 6.76" | 172mm loaded  
Plenum cable should be conditioned at room temperature for 24 hours prior to installation and never installed below 32 °F | 0 °C ambient temperature

**Construct**

N/A

**Applications**

Plenum Wireless Broadcast systems for RF400 sized cables  
Plenum Antenna pigtails, Inventory control systems  
Plenum Microwave, wireless microphones

**Shield**

100% lightly bonded aluminum/poly  
90% 24x10/36 AWG tinned copper braid shield

**Performance**

N/A

**Jacket**

Polyvinylidene fluoride  
Colors: Black  
Wall thickness: 0.016" | 0.41mm  
Diameter: 0.338" | 8.58mm

**Final Outside Diameter (inches)**

0.338

Specification Revision Date:

December 1, 2011





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RG8 Coaxial Sweep to 5.80 GHz

Frequency	Attenuation		Power
	dB/100FT	dB/100m	Avg Watts
30	0.70	2.30	3300
50	0.90	2.95	2570
150	1.60	5.25	1480
220	1.90	6.23	1220
450	2.80	9.18	840
900	4.00	13.12	590
1500	5.20	17.06	450
1800	5.70	18.70	410
2000	6.10	20.01	390
2500	6.80	22.30	340
3400	8.00	26.24	290
5800	11.10	36.41	220

