



## Technical Specifications

**Product Line: RG8-CMR**

### Description

10 AWG solid core bare copper dual shielded RG8 coaxial cable  
NEC type CMR and CEC type CMG FT4. 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 copper clad aluminum conductors  
Diameter: 0.108" | 2.74mm

### Electrical

DC resistance: 1.39  $\Omega$  / 1000' | 4.56  $\Omega$ /KM  
Shield DCR: 1.65  $\Omega$  / 1000' | 5.41  $\Omega$ /KM  
Mutual capacitance: 23.5 pF/FT | 77.1 pF/M  
Impedance: 50  $\pm$  3  $\Omega$   
Velocity of Propagation: 85%  
Voltage rating: 300V  
Cutoff frequency: 16.2 GHz

### Insulation

Foam polyethylene  
Wall thickness: 0.088" | 2.25mm  
Diameter: 0.285" | 7.24mm

### Regulatory

NEC: CMR 75 °C  
CEC: CMG FT4 60 °C  
Sunlight resistant  
EU RoHS 2002/95/EC Compliant

### Color Code

Natural

### Packages

Reel: 1000' | 305M  
Weight: 83 Lbs/1000' | 124 Kg/KM

### Assembly

N/A

### Installation

Pull Tension: 160 Lbs | 712 N  
Bend radius: 4.05" | 103mm unloaded  
Bend radius: 8.10" | 206mm loaded

### Construct

N/A

### Applications

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

### Shield

100% bonded aluminum/poly/aluminum  
90% 24x9/34 AWG tinned copper braid shield

### Performance

16KW maximum power

### Jacket

UV stabilized polyvinyl chloride  
Colors: Black  
Wall thickness: 0.045" | 1.14mm  
Diameter: 0.405" | 10.29mm

### Final Outside Diameter (inches)

0.405

Specification Revision Date:

December 3, 2012





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RG8 Coaxial Sweep to 6.0 GHz

Frequency	Attenuation		Power
	dB/100FT	dB/100m	Max Watts
30	0.70	2.30	3427
50	0.90	2.95	2588
150	1.50	4.92	1428
220	1.80	5.90	1195
450	2.70	8.86	817
900	3.80	12.46	575
1500	5.10	16.73	437
1800	5.60	18.37	399
2000	6.00	19.68	375
2500	6.70	21.98	335
3000	7.50	24.60	305
3500	8.20	26.90	282
4500	9.50	31.16	247
5800	11.10	36.41	217
6000	11.40	37.39	213

