



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 Ω / 1000' | 4.56 Ω /KM
 Shield DCR: 1.65 Ω / 1000' | 5.41 Ω /KM
 Mutual capacitance: 23.5 pF/FT | 77.1 pF/M
 Impedance: 50 \pm 3 Ω
 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

