



**Technical Specifications**

**Product Line: 20-CMR**

**Description**

20 AWG solid core dual shielded RG59 serial digital coaxial cable  
NEC type CMR and CEC type CMR FT4. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725, 800 and 820.

**Conductor**

20 AWG  
Solid annealed bare copper conductors  
Diameter: 0.032" | 0.81mm

**Electrical**

Conductor DCR: 10.34  $\Omega$  / 1000' | 33.92  $\Omega$ /KM  
Capacitance: 16.2 pF/FT | 53.14 pF/M  
Impedance: 75  $\pm$  3  $\Omega$   
Inductance: 0.094  $\mu$ H/FT | 0.31  $\mu$ H/M  
Velocity of Propagation: 82%  
Voltage rating: 300V  
SRL 1-450 MHz: -26dB  
SRL 451-850 MHz: -23dB  
SRL 851-3000 MHz: -18dB

**Insulation**

Foam polyethylene  
Wall thickness: 0.057" | 1.45mm  
Diameter: 0.144" | 3.66mm

**Regulatory**

NEC: CMR 75 °C  
CEC: CMG FT6 60 °C  
EU RoHS 2002/95/EC Compliant

**Color Code**

Natural

**Packages**

Reel: 1000' | 305M  
Weight: 34 Lbs/1000' | 51 Kg/KM

**Assembly**

N/A

**Installation**

Pull Tension: 52 Lbs | 231 N  
Bend radius: 2.36" | 60mm unloaded  
Bend radius: 4.72" | 120mm loaded

**Construct**

N/A

**Applications**

Riser Serial Digital Video (SMPTE)  
Riser CATV and DBS modulated video  
Riser baseband video signals  
Riser digital audio unbalanced formats

**Shield**

100% aluminum/poly/aluminum tape bonded  
95% 16x9/36 AWG tinned copper braid shield

**Performance**

3G HDSDI to 213 feet  
CATV to 102 feet  
CCTV to 449 feet  
S/PDIF digital audio 420 feet

**Jacket**

Flame retardant polyvinyl chloride  
Colors: Black, White, Yellow, Green, Blue, Gray, Orange,  
Violet, Brown, Red  
Wall thickness: 0.032" | 0.81mm

**Final Outside Diameter (inches)**

0.236

Specification Revision Date:

September 16, 2010





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20-CMR Coaxial Sweep to 4.5 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.27	0.89
3.58	0.51	1.67
10	0.86	2.82
71.5	2.00	6.56
135	2.75	9.02
270	3.81	12.50
360	4.44	14.56
720	6.36	20.86
1000	7.59	24.90
1200	8.31	27.26
1450	9.26	30.37
1800	10.38	34.05
2500	12.42	40.74
3000	13.60	44.61
3500	14.70	48.22
4000	15.81	51.86
4500	16.92	55.50

