



**Technical Specifications**

**Product Line: 18-CMR**

**Description**

18 AWG solid core dual shielded RG6 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**

18 AWG  
Solid annealed bare copper conductors  
Diameter: 0.040" | 1.02mm

**Electrical**

Conductor DCR: 6.40  $\Omega$  / 1000' | 20.99  $\Omega$ /KM  
Shield DCR: 2.90  $\Omega$  / 1000' | 9.51  $\Omega$ /KM  
Capacitance: 16.0 pF/FT | 52.48 pF/M  
Impedance: 75  $\pm$  3  $\Omega$   
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: 0.070" | 1.78mm  
Diameter: 0.180" | 4.57mm

**Regulatory**

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

**Color Code**

Natural

**Packages**

Reel: 1000' | 305M  
Weight: 42 Lbs/1000' | 63 Kg/KM

**Assembly**

N/A

**Installation**

Pull Tension: 69 Lbs | 306 N  
Bend radius: 2.72" | 70mm unloaded  
Bend radius: 5.44" | 140mm 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 252 feet  
CATV to 236 feet  
CCTV to 560 feet  
S/PDIF digital audio 560 feet

**Jacket**

Flame retardant polyvinyl chloride  
Colors: Black, Blue, Green, Red, White, Yellow  
Wall thickness: 0.032" | 0.81mm  
Diameter: 0.272" | 6.91mm

**Final Outside Diameter (inches)**

0.272

Specification Revision Date:

March 7, 2006





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18-CMR Coaxial Sweep to 4.5 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.25	0.82
10	0.72	2.36
50	1.45	4.76
100	1.98	6.49
200	2.73	8.95
400	3.90	12.79
700	5.24	17.19
1000	6.35	20.83
1450	7.75	25.42
2200	9.74	31.95
3000	11.64	38.18
3500	12.74	41.79
4000	13.78	45.20
4500	14.78	48.48

