



**Technical Specifications**

**Product Line: 23-MINI-SD**

**Description**

23 AWG solid core dual shielded mini-RG59 serial digital coaxial cable  
NEC type CM 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**

23 AWG  
Solid annealed bare copper conductors  
Diameter: 0.023" | 0.57mm

**Electrical**

DC resistance: 20.3  $\Omega$  / 1000' | 66.58  $\Omega$ /KM  
Shield DCR: 4.0  $\Omega$  / 1000' | 13.12  $\Omega$ /KM  
Capacitance: 16.5 pF/FT | 54.1 pF/M  
Impedance: 75  $\pm$  3  $\Omega$   
Velocity of Propagation: 84%  
Voltage rating: 300V  
SRL 5-450 MHz: -23dB  
SRL 451-3000 MHz: -15dB

**Insulation**

Foam polyethylene  
Wall thickness: 0.039" | 1.00mm  
Diameter: 0.101" | 2.56mm

**Regulatory**

NEC: CM 60 °C  
CEC: CMG FT4 60 °C  
EU RoHS 2002/95/EC Compliant

**Color Code**

Natural

**Packages**

Reel: 1000' | 305M  
Weight: 19 Lbs/1000' | 29 Kg/KM

**Assembly**

N/A

**Installation**

Pull Tension: 36 Lbs | 160 N  
Bend radius: 1.65" | 42mm unloaded  
Bend radius: 3.30" | 84mm 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 tape bonded  
93% 16x7/36 AWG tinned copper braid shield

**Performance**

3G HDS DI to 147 feet  
CATV to 77 feet  
CCTV to 313 feet  
S/PDIF digital audio 313 feet

**Jacket**

Polyvinyl chloride  
Colors: Red, Green, Blue, White, Yellow, Black, Orange,  
Violet, Brown, Gray  
Wall thickness: 0.019" | 0.48mm  
Diameter: 0.165" | 4.19mm

**Final Outside Diameter (inches)**

0.165

Specification Revision Date:

March 8, 2007





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Mini RG59 Coaxial Sweep to 4.50 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.38	1.25
3.58	0.77	2.53
10	1.29	4.23
71.5	3.04	9.97
135	4.18	13.71
270	5.92	19.42
360	6.70	21.98
720	9.47	31.06
1000	11.16	36.60
1200	12.22	40.08
1450	13.44	44.08
1800	14.97	49.10
2500	17.65	57.89
3000	19.33	63.40
3500	20.88	68.49
4000	22.32	73.21
4500	23.67	77.64

