



## Composite/Home Control Cables: 2 Quads + 2 CAT5e + 2 Fibers

Coax	Central Conductor / Resistance	Insulation Diameter	Overall Diameter	Braid Coverage / Resistance	Impedance $\Omega$	Capacitance / Propagation Speed	Attenuation	
							MHz	dB/100 m
RG-6	0.040 (in)	0.180 (in)	0.295 (in)	1st 60%	75 $\pm$ 3	55.7 (pF/m)	55	5.3
	18 (AWG)			2nd 40%			211	10.0
	99.5 ( $\Omega$ /km)	4.6 (mm)	7.5 (mm)	35.6 ( $\Omega$ /km)			300	11.6
							450	14.4
							550	16.1
750	18.4							
1000	21.5							

Data	Conductor Size / Resistance	Jacket Thickness	Overall Diameter	Impedance $\Omega$	Mutual Capacitance	Properties in 100 m (328 ft.)		
						Frequency MHz	Attenuation dB	PSNEXT dB
				CAT5e	24 (AWG)	0.020 (in)	0.185 (in)	100 $\pm$ 15
1 to 100 MHz	45.9 (pF/m)	10	6.5					47
		16	8.2		44			
		31.25	11.7		39			
62.5	17.0	35						
100	22.0	32						

Fiber	Tight Buffer Diameter	External Dimensions	Minimum Bent Radius	Attenuation	Core Diameter $\mu$ m	Cladding Diameter $\mu$ m	Bandwidth	Numerical Aperture
				db/km			MHz - Km	
Multi-Mode	0.035 (in)	0.138 (in)	2.300 (in)	3.2	62.5 $\pm$ 3	125 $\pm$ 2	160	0.275 $\pm$ 0.15
				@850 mm			@850 mm	
	0.09	500						
	@1300 mm	@1300 mm						

All values are nominal and subject to correction

### Application:

Residential Cabling with structured design for voice, data, video & any other high speed application.

### Two Coaxial Cables CATV RG 6/U:

- 18 AWG CCS central conductor
- Gas injected foam polyethylene insulation-Quad-shield, 2 aluminum braid plus 2 foil layers
- PVC jackets, one black and the other white

### Two four-pair CAT5e Cables:

- Solid copper conductors
- Polyethylene insulation
- Twisted & cabled pairs
- PVC jackets, one white and the other blue

### Two Fiber Distribution

- 62.5 $\mu$  multimode fibers
- Tight buffer
- Aramid yarn protection
- PVC orange jacket

### Outside Jacket:

- A flame retardant PVC jacket (0.035")
- Overall diameter of cable is 0.75"

### Standards:

SCTE, ANSI/EIA/TIA 568 A  
 ANSI/ICEA S-83-596  
 ISO-9001: Quality assurance system  
 UL or ETL Verified  
 Packaging: Wooden reels with a standard length of 500 ft.

# 1-800-945-5542