



## Technical Specifications

Product Line: **CEBUS+-2N2**

### Description

Composite cable consisting of (2) Dual shield SDI RG6 coaxial cables and (2) UTP Category 6 cables under one jacket

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 and 800.

### Component 1:

U/UTP category 6 cable  
23 AWG solid annealed bare copper conductor  
High density polyethylene  
Wall thickness: 0.0087" | 0.22mm  
Diameter: 0.040" | 1.02mm  
Polyvinyl chloride jacket  
Thickness: 0.017" | 0.43mm  
Diameter: 0.236" | 6.0mm

### Electrical

Cat 6 DC resistance: 22.31  $\Omega$  / 1000' | 73.20  $\Omega$ /KM  
Mutual capacitance: 14.0 pF/FT | 45.92 pF/M  
Impedance: 100  $\pm$  15  $\Omega$   
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Impedance: 100  $\pm$  15  $\Omega$   
Propagation Delay (Skew): 45ns/100m MAX  
Voltage rating: 300V  
RG6 DCR: 6.5  $\Omega$  / 1000' | 21.32  $\Omega$ /KM  
Impedance: 75  $\Omega$   
Velocity of Propagation: 82%  
SRL 5-2200 MHz: -20dB  
SRL 2.2-3 GHz: -17dB

### Component 2:

RG6 high definition dual shield cable  
18 AWG solid annealed bare copper conductor  
Foam polyethylene dielectric  
Diameter: 0.180" | 4.57mm  
100% aluminum/mylar with 25% overlap  
95% 16x8/34 AWG tinned copper braid shield  
Polyvinyl chloride jacket  
Thickness: 0.030" | 0.76mm  
Diameter: 0.272" | 6.9mm

### Regulatory

NEC: CM 75 °C  
CEC: CM 60 °C  
EU RoHS 2002/95/EC Compliant

### Color Code

Cat 6 jackets: Blue, gray  
Pair 1: Orange, White/orange stripe  
Pair 2: Blue, White/blue stripe  
Pair 3: Green, White/green stripe  
Pair 4: Brown, White/brown stripe  
RG6 jackets: Black, white

### Packages

Reel: 500' | 152M  
Weight: 183 Lbs/1000' | 273 Kg/KM

### Assembly

2 coaxial cables and 2 category 6 cables cabled on a common axis and overall jacketed

### Installation

Pull Tension: 250 Lbs | 1112 N  
Bend radius: 6.89" | 175mm unloaded  
Bend radius: 13.78" | 350mm loaded

### Construct

100% Polyester tape binder  
Ripcord under jacket

### Applications

Smart home systems structured wiring support cable  
General purpose CATV/DBS and security video  
General purpose LAN, voice, and infrared  
General purpose BALUN support and media transmission





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**Shield**

See individual component descriptions

**Jacket**

Polyvinyl chloride

Colors: Burgundy

Wall thickness: 0.032" | 0.81mm

Diameter: 0.677" | 17.2mm

Specification Revision Date:

**Performance**

LAN: 300 feet

CATV to 236 feet

CCTV to 560 feet

**Final Outside Diameter (inches)**

0.677

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**Category 6 Performance Chart**

FREQ (MHz)	Insertion Loss (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACR (dB/100m)	PSACR (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	RL (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
0.772	1.8	76.0	74.0	74.2	72.2	70.0	67.0	19.4
1.0	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4.0	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8.0	5.3	60.8	58.8	55.5	53.5	49.7	46.7	24.5
10.0	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16.0	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
20.0	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25.0	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100.0	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200.0	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250.0	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3
450.0	46.0	34.5	32.5	-11.5	-13.5	14.7	11.7	15.5
550.0	51.8	33.2	31.2	-18.6	-20.6	13.0	10.0	14.9

**RG6 Sweep to 3.0 GHz**

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.27	0.89
10	0.81	2.66
50	1.46	4.79
100	2.05	6.72
200	2.86	9.38
400	4.05	13.28
700	5.36	17.58
1000	6.59	21.62
1450	8.03	26.34
2200	9.77	32.05
3000	13.11	43.00

