



Technical Specifications

Product Line: CEBUS-2N2

Description

Composite cable consisting of (2) Quad shield CATV/DBS RG6 coaxial cables and (2) UTP Category 6 cables under one jacket

NEC type CMG 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

Diameter: 0.040" | 1.02mm

Polyvinyl chloride jacket

Thickness: 0.020" | 0.50mm

Diameter: 0.228" | 5.8mm

Electrical

Cat 6 DC resistance: 22.31 Ω / 1000' | 73.20 Ω /KM

Mutual capacitance: 14.0 pF/FT | 45.92 pF/M

Impedance: 100 \pm 15 Ω

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Impedance: 100 \pm 15 Ω

Propagation Delay (Skew): 45ns/100m MAX

Voltage rating: 300V

RG6 quad DCR: 6.5 Ω / 1000' | 21.32 Ω /KM

Impedance: 75 Ω

Velocity of Propagation: 82%

SRL 5-2200 MHz: -20dB

SRL 2.2-3 GHz: -17dB

Component 2:

RG6 quad shield coaxial cable

18 AWG solid annealed bare copper conductor

Foam polyethylene dielectric

Diameter: 0.180" | 4.57mm

100% APA tape and 60% 34 AWG aluminum braid

100% APA tape and 40% 34 AWG aluminum braid

Polyvinyl chloride jacket

Thickness: 0.025" | 0.64mm

Diameter: 0.287" | 7.30mm

Regulatory

ANSI/TIA-568C Category 6

NEC: CMG 75 °C

CEC: CMG FT4 60 °C

EU RoHS 2002/95/EC Compliant

Color Code

Category 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 Quad jackets: White, Black

Packages

Reel: 500' | 152M

Weight: 173 Lbs/1000' | 258 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: 7.01" | 178mm unloaded

Bend radius: 14.02" | 356mm loaded

Construct

Ripcord under jacket

Applications

Smart home systems structured wiring support cable

General purpose CATV/DBS, cable modem

General purpose LAN, voice, and infrared

General purpose BALUN support and media transmission





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Shield

See individual component descriptions

Jacket

Flame retardant polyvinyl chloride

Colors: Blue

Wall thickness: 0.032" | .81mm

Diameter: 0.701" | 17.8mm

Specification Revision Date:

Performance

LAN: 300 feet

Passive Baluns up to 2500 feet

CATV to 236 feet

Final Outside Diameter (inches)

0.701

December 5, 2012

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	0.28	0.92
50	1.46	4.79
100	2.04	6.69
200	2.83	9.28
400	4.05	13.28
900	6.23	20.43
1000	6.59	21.62
1450	7.93	26.01
1800	8.83	28.96
2200	9.76	32.01
3000	13.26	43.49

