PRODUCT SPECIFICATIONS

CONVERGENT CONNECTIVITY TECHNOLOGY

CA1000

Description: Category 5e swept to 350MHz and a 16AWG 4 conductor unshielded cable in a siamese construction. Non-Plenum

Ratings/Approvals: NEC Article 800, UL Subject 444, Type CM, C(ETL)US, RoHS Compliant

Applications: Communications Application

CONSTRUCTION

Conductor (4/C):	16 AWG Bare Copper	Conductor (Cat5e):	24 AWG Bare Copper
Stranding (4/C):	65 Strand	Stranding (Cat5e):	Solid
Insulation Material (4/C):	Polyvinyl Chloride	Insulation Material (Cat5e):	Polyethylene
Insulation Diameter (4/C):	0.084 in. (2.133 mm.) Nominal	Color Code (Cat5e):	Blue paired with White/Blue Orange paired with White/Orange Brown paired with White/Brown Green paired with White/Green
Color Code (4/C):	Black, Red, Green, White		

Overall Construction Type:	Siamese
Overall Jacket Material:	Polyvinyl Chloride
Nominal Overall Dimensions:	Minor (Cat5e): 0.220 in. (5.588 mm) Minor (4c16): 0.260 in. (6.604 mm) Major: 0.505 in. (12.827 mm.)

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating (Cat5e):		Installation: 0°C to 50°C Operation: -10°C to 60°C
Velocity of Propagation (Cat5e):		70%
Mutual Capacitance (Cat5e):		14 pF/ft Nominal
Capacitance Unbalance (Cat5e):		330 pF/ft Maximum
Maximum Conductor D.C.R. (Cat5e):		28.6Ω/1,000 ft
Maximum D.C.R. Unbalance (Cat5e):		5%
Maximum Delay Skew (Cat5e):		45.0ns/100m
Characteristic Impedance (Cat5e):	From 0.772 MHz - 100 MHz From 101 MHz - 200 MHz From 201 MHz - 350 MHz	100 ± 15% 100 ± 22% 100 ± 32%

Issue Date: February '12 Revision: 0

THE STRONGEST LINK IN YOUR SUPPLY CHAIN

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Cat5e ELECTRICAL CHARACTERISTICS

Frequency	SRL	Return Loss	Attenuation	PS-NEXT	NEXT	ELFEXT	PS-ELFEXT
MHz	dB	dB	dB (100m)	dB	dB	dB	dB
	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	68.3	70.3	63.8	60.8
4	23.0	20.3	4.0	59.3	61.3	51.7	48.7
10	23.0	25.0	6.4	53.3	55.3	43.8	40.8
16	23.0	25.0	8.2	50.3	52.3	39.7	36.7
20	23.0	25.0	9.2	48.8	50.8	37.7	34.7
31.25	21.5	23.6	11.7	45.9	47.9	33.9	30.9
62.5	18.1	21.5	16.9	41.4	43.4	27.8	24.8
100	16.0	20.1	21.9	38.3	40.3	23.8	20.8
250	12.0	17.3	36.8	32.3	34.3	15.8	12.8
300	11.2	16.8	40.9	31.2	33.2	14.2	11.2
350	10.6	16.3	44.8	30.2	32.2	12.9	9.9

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