



# PRODUCT SPECIFICATIONS

**CONVERGENT  
CONNECTIVITY  
TECHNOLOGY**

## CA1105

<b>Description:</b>	Category 5e swept to 350MHz and a 18AWG 2 conductor unshielded cable in a siamese construction. Non-Plenum
<b>Ratings/Approvals:</b>	NEC Article 800, UL Subject 444, Type CMR FT4, C(ETL)US, RoHS Compliant
<b>Applications:</b>	Communications Application

### CONSTRUCTION

Conductor (2/C):	18 AWG Bare Copper	Conductor (Cat5e):	24 AWG Bare Copper
Stranding (2/C): Insulation	Stranded	Stranding (Cat5e):	Solid
Material (2/C): Insulation	Polyvinyl Chloride	Insulation Material (Cat5e):	Polyethylene
Diameter (2/C): Color	0.062 in. (1.574 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
Code (2/C):	Black, Red		
Overall Construction type:		Siamese	
Overall Jacket Material:		Polyvinyl Chloride	
Nominal Overall Dimensions:		Minor (Cat5e): 0.210 in. (5.334 mm) Minor (2c18): 0.182 in. (4.622 mm) Major: 0.417 in. (10.591 mm.)	

### ELECTRICAL & PHYSICAL PROPERTIES

Suggested Working Voltage:	300 V RMS
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 100 ± 15% From 101 MHz - 200 MHz 100 ± 22% From 201 MHz - 350 MHz 100 ± 32%

Issue Date: August '14 Revision: 1

**THE STRONGEST LINK IN YOUR SUPPLY CHAIN**

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## Cat5e ELECTRICAL CHARACTERISTICS

Frequency	SRL	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
	dB	dB	dB(100m)	dB	dB	dB	dB	dB	dB
MHz	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	23.0	20.0	2.0	65.3	62.3	63.8	60.8	63.3	60.3
4	23.0	20.3	4.0	56.3	53.3	51.7	48.7	52.3	49.3
8	23.0	20.5	5.7	51.8	48.8	45.7	42.7	46.1	43.1
10	23.0	25.0	6.4	50.3	47.3	43.8	40.8	43.9	40.4
16	23.0	25.0	8.2	47.3	44.3	39.7	36.7	39.1	36.1
20	23.0	25.0	9.2	45.8	42.8	37.7	34.7	36.6	33.6
25	22.0	25.0	10.4	44.3	41.3	35.8	32.8	33.9	30.9
31.25	21.1	23.6	11.7	42.9	39.9	33.9	30.9	31.2	28.2
62.5	18.1	21.5	16.9	38.4	35.4	27.8	24.8	21.5	18.5
100	16.0	20.1	21.9	35.3	32.3	23.8	20.8	13.4	10.4
250	12.0	17.3	36.8	34.3	32.3	15.8	12.8	----	----
300	11.2	16.8	40.9	33.2	31.2	14.2	11.2	----	----
350	10.6	16.3	44.8	32.2	30.2	12.9	9.9	----	----

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.

Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

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