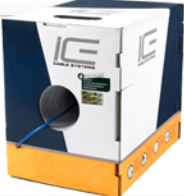




Product Specification



<p>CAT 5e 350 Mhz</p> <p>Spec No: S-001</p> <p>Date: 2/22/2014</p> <p>Approved By: Brian Rizzo</p> 	<p>Cross Section</p> 	<p>Packaging</p> <p>Box 1000 Ft.</p> <p>Colors</p> 
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Description

Cat 5 Enhanced 350mhz, 24AWG, 4 Pair, Solid, UTP (Unshielded), CM - Riser & FT4 Rated for Data and Telecommunications Applications.

Description	
Rated Voltage (V)	300
Rated Temperature (°C)	75
Product Standard Certification	(UL) or c(UL) CMR
Flame test	CMR FT4

Application
Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems.

Reference Standard:
UL 444 & the customer's specification

Performance

Electrical Characteristics (20°C)	
Voltage	300 Volts RMS
Temperature	-20°C to 75°C
Dielectric Strength	AC-500V/1 Minute

Mechanical Characteristics	
Test Object	Jacket
Test Material	PVC
Before Tensile Strength (kgf/mm ²)	≥1.05



Sequential footmarks applied every four feet in conjunction with the print legend.
"XXX/XXX" Stands for Length. eg: 000/1000; 004/0996; 008/0992...

Construction

Conductor	Solid Bare Copper
Component: 4 Twisted Pair	8C
AWG	24
Construction (mm)	1/0.511
Solid Dia. (±0.05mm)	0.511
Insulation	PE
Nom. Thickness (mm)	0.19
Insulation Dia. (±0.05mm)	0.925
Ripcord	210 Dx6 Nylon Thread
Jacket	PVC
Nom. Thickness (mm)	0.50
Outer Dia. (±0.10mm)	5.0

Insulation/Conductor Colors	
Component	P1: Blue & White/Blue P2: Orange & White/Orange P3: Green & White/Green P4: Brown & White/Brown
Jacket Colors	Blue - Pantone 3005U Red - Pantone 032U Gray - Pantone 430U Green - Pantone 334U White - Pantone White Yellow - Pantone Yellow U Black - Pantone Black

Compliance

		CMR	FT4
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Jacket Marking (Black)

ICE CABLE SYSTEMS CATEGORY 5E 350MHZ VERIFIED TO TIA/EIA-568-B.2 E312434-22 (UL) CMR OR c(UL) CMG FT4 75C 24AWG 4PR UTP APP: DATA PHONE ROOM: ENT KIT NK FAN LR DR POWD OFF POO PAT MBR MBA BR1 BR2 BR3 BR4 BR5 GAR GYM OTHER WALL: N S E W JACK: 1 2 3 4 5 6 USE: KPAD TPAD LAN TEL "ROHS" XXX/XXX FT

Product Specification



CAT 5e 350 Mhz

Conductor Resistance: Max 9.38 ohms/100m at 20 °C;

D-C Resistance Unbalance: Max. 5%;

Pair-to-Ground Capacitance Unbalance: Max. 330 pF/100m;

Characteristic Impedance (1-100MHz): 100 +/- 15 ohms;

Propagation Delay Skew (1-100MHz): Max. 45ns/100m;

Mutual Capacitance: 46-56 pF/M

Test Report: Pair 1 = 49.9 pF/M; Pair 2 = 49.6 pF/M; Pair 3 = 51.6 pF/M; Pair 4 = 49.1 pF/M

Frequency	Attenuation	NEXT	ACR	PSNEXT	ELFEXT	PSELFEXT	RL	DELAY
(MHz)	(dB/100m)	(dB/100m)	(dB)	(dB)	(dB)	(dB/100m)	(dB)	(ns/100m)
0.772	1.8	67.0	65.2	64.0	66.0	63.0	19.4	575.0
1	2.0	65.3	63.3	62.3	63.8	60.8	20.0	570.0
4	4.1	56.3	52.2	53.3	51.7	48.7	23.0	552.0
8	5.8	51.8	46.0	48.8	45.7	42.7	24.5	546.7
10	6.5	50.3	43.8	47.3	43.8	40.8	25.0	545.0
16	8.2	47.3	39.1	44.4	39.7	36.7	25.0	543.0
20	9.3	45.8	36.5	42.8	37.7	34.7	25.0	542.0
25	10.4	44.3	33.9	41.3	35.8	32.8	24.3	541.2
31.25	11.7	42.9	31.2	39.9	33.9	30.9	23.6	540.4
62.50	17.0	36.4	19.4	35.4	27.8	24.6	21.5	538.6
100	22.0	35.3	13.3	32.3	23.8	20.8	20.1	538.0
200	32.4	30.8	--	27.8	17.8	14.8	18.0	536.6
300	41.0	28.2	--	25.2	14.3	11.3	16.8	536.1
350	44.9	27.2	--	24.2	12.9	9.9	16.3	535.9