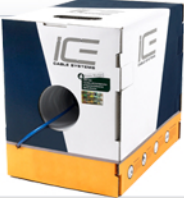




# Product Specification





<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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<h2>Description</h2>									
<p>Cat 5 Enhanced 350mhz, 24AWG, 4 Pair, Solid, UTP (Unshielded), CM - Riser &amp; FT4 Rated for Data and Telecommunications Applications.</p>									
<p><b>Description</b></p> <table border="0"> <tr> <td>Rated Voltage (V)</td> <td>300</td> </tr> <tr> <td>Rated Temperature (°C)</td> <td>75</td> </tr> <tr> <td>Product Standard Certification</td> <td>(UL) or c(UL) CMR</td> </tr> <tr> <td>Flame test</td> <td>CMR FT4</td> </tr> </table>		Rated Voltage (V)	300	Rated Temperature (°C)	75	Product Standard Certification	(UL) or c(UL) CMR	Flame test	CMR FT4
Rated Voltage (V)	300								
Rated Temperature (°C)	75								
Product Standard Certification	(UL) or c(UL) CMR								
Flame test	CMR FT4								
<p><b>Application</b></p> <p>Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems.</p>									
<p><b>Reference Standard:</b></p> <p>UL 444 &amp; the customer's specification</p>									

<h2>Performance</h2>							
<p><b>Electrical Characteristics (20°C)</b></p> <table border="0"> <tr> <td><b>Voltage</b></td> <td>300 Volts RMS</td> </tr> <tr> <td><b>Temperature</b></td> <td>-20°C to 75°C</td> </tr> <tr> <td><b>Dielectric Strength</b></td> <td>AC-500V/1 Minute</td> </tr> </table>		<b>Voltage</b>	300 Volts RMS	<b>Temperature</b>	-20°C to 75°C	<b>Dielectric Strength</b>	AC-500V/1 Minute
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<p><b>Mechanical Characteristics</b></p> <table border="0"> <tr> <td>Test Object</td> <td>Jacket</td> </tr> <tr> <td>Test Material</td> <td>PVC</td> </tr> <tr> <td>Before Tensile Strength (kgf/mm<sup>2</sup>)</td> <td>≥1.05</td> </tr> </table> <p><small>Sequential footmarks applied every four feet in conjunction with the print legend. "XXX/XXX" Stands for Length. eg: 000/1000; 004/0996; 008/0992...</small></p>		Test Object	Jacket	Test Material	PVC	Before Tensile Strength (kgf/mm <sup>2</sup> )	≥1.05
Test Object	Jacket						
Test Material	PVC						
Before Tensile Strength (kgf/mm <sup>2</sup> )	≥1.05						

<h2>Construction</h2>	
<p><b>Conductor</b></p> <p>Component: 4 Twisted Blue</p> <p>AWG</p> <p>Construction (mm)</p> <p>Solid Dia. (±0.05mm)</p> <p><b>Insulation</b></p> <p>Nom. Thickness (mm)</p> <p>Insulation Dia. (±0.05mm)</p> <p><b>Ripcord</b></p> <p><b>Jacket</b></p> <p>Nom. Thickness (mm)</p> <p><b>Outer Dia. (±0.10mm)</b></p>	<p>Solid Bare Copper</p> <p>8C</p> <p>24</p> <p>1/0.511</p> <p>0.511</p> <p>PE</p> <p>0.19</p> <p>0.925</p> <p>210 Dx6 Nylon Thread</p> <p>PVC</p> <p>0.50</p> <p>5.0</p>
<p><b>Insulation/Conductor Colors</b></p>	
<p><b>Component</b></p> <p><b>Jacket Colors</b></p>	<p>P1: Blue &amp; White/Blue</p> <p>P2: Orange &amp; White/Orange</p> <p>P3: Green &amp; White/Green</p> <p>P4: Brown &amp; White/Brown</p> <p>Blue - Pantone 3005U</p> <p>Red - Pantone 032U</p> <p>Gray - Pantone 430U</p> <p>Green - Pantone 334U</p> <p>White - Pantone White</p> <p>Yellow - Pantone Yellow U</p> <p>Black - Pantone Black</p>

<h2>Compliance</h2>			
		<p><b>CMR</b></p>	<p><b>FT4</b></p>

## 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