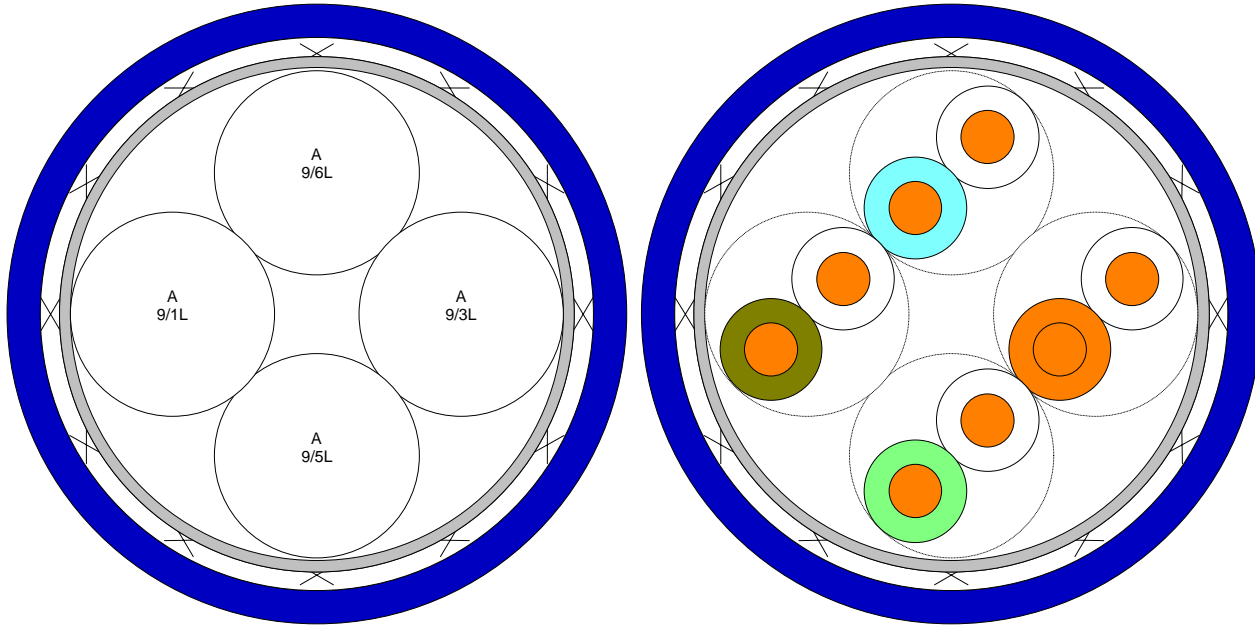


Identification, colors & marks

Cross section



Components

ID	Quantity	Part number	Description
A	4	EPD-RWC-20411	Cat 5e twisted pairs

Cable

Outer	Description	Thickness		OD	
		Inches	mm	Inches	mm
Core				0.222	5.64
Wrap	Aluminised poly. - facing out-.0025	0.005	0.13	0.232	5.90
Shield	Round tinned copper 38 awg regular	0.009	0.22	0.249	6.33
Jacket	FEP blue	0.015	0.38	0.279	7.09
Cable OD tolerance				+ 0.014	+ 0.36
<b>Weight</b>		46.21 lb/kft		68.90 Kg/Km	

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Continued

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**Physical properties**

<b>Part Number</b>	The "+" in the part number will be replaced by a color code designator. This overrides the color currently shown on the drawing. Example: Blue jacketed cable, CEC-RWC-20412-6.
<b>Jacket tensile strength</b>	2000 psi minimum
<b>Jacket elongation</b>	200% minimum

**Electrical properties**

<b>Characteristic Impedance</b>	100 ±15 ohms per ASTM D4566
<b>Electrical Testing</b>	Tested in accordance with ANSI/TIA 568-B.2.
<b>Additional Electricals</b>	See Page 3
<b>Voltage Withstand (dielectric)</b>	500 volts (rms) conductor to conductor and shield.
<b>Capacitance</b>	Mutual Capacitance of a pair: 5.6 nF/100 meters maximum @ 1 kHz. Pair to Ground Capacitance Unbalance, 330 pF/100 m maximum @ 1 kHz.

**Notes**

<b>Colors</b>	Color code designators shall be in accordance with MIL-STD-681.
<b>Copyright</b>	© 2006 Tyco Electronics Corporation. All rights reserved
<b>Dimensions</b>	Dimensions are in inches, and unless otherwise designated, are nominal.
<b>Export Licence Note</b>	The information contained on this drawing may be subject to International Traffic in Arms Regulations (ITAR) or Export Administration Regulations (EAR) controls and may not be disclosed to any foreign person or firm, including foreign persons employed by or associated with your firm, without first complying with all requirements requirement for obtaining an export license if applicable.
<b>Identification, Colors &amp; Marks</b>	The following is the key to the descriptions in the left hand view of the cable on Page 1. Line 1: Identifies the component per the components' ID list. Line 2: Color codes. Line 3: Mark on component "-" mark on component jacket.
<b>Minimum length</b>	Cable will be supplied in 50 ft. minimum lengths unless otherwise specified
<b>Part Number Note</b>	Other codes and suffixes may be added to the Part Number as necessary, to capture any additional requirements imposed by the purchase order
<b>Specification Information</b>	This drawing is the property of Tyco Electronics, Inc. and may not be used for any purpose other than for that which it is supplied without the express written authority of Tyco Electronics, Inc.

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Addendum

CEC CAT 5e Cables with 24 AWG Stranded Conductors  
 CEC-RWC-20412  
 Issue: Proposed  
 Date: 9/25/06

**TABLE 1**

Tested per ASTM D4566	Insertion Loss (dB)/100m (nominal)	Return Loss (dB) (minimum)	NEXT (dB) (minimum)	ELFEXT (dB) (minimum)	PSNEXT	PSELFEXT	Velocity of Propagation	Delay Skew	Propagation Delay
					(dB)	(dB)	(%)	(ns/100m)	(ns/100m)
					(minimum)	(minimum)	((minimum)	(maximum)	(maximum)
<b>Frequency</b>									
0.772 MHz	-	--	67.0	67.0	64.0	-			
1 MHz	2.4	20.0	65.3	65.3	62.3	63.8	58.5	45	570
4 MHz	4.9	23	56.3	56.3	53.3	51.7			
8 MHz	6.9	24.5	51.8	51.8	48.8	45.7			
10 MHz	7.8	25.0	50.3	50.3	47.3	43.8			
16 MHz	9.9	25.0	47.3	47.2	44.3	39.7	61.1	45	545
20 MHz	11.1	25.0	45.8	45.8	42.8	37.7			
25 MHz	12.5	24.2	44.3	44.3	41.3	35.8			
31.25 MHz	14.1	23.3	42.9	42.9	39.9	33.9			
62.5 MHz	20.4	20.7	38.4	38.4	35.4	27.8			
100 MHz	26.4	19	35.3	35.3	32.3	23.8	62.0	45	538