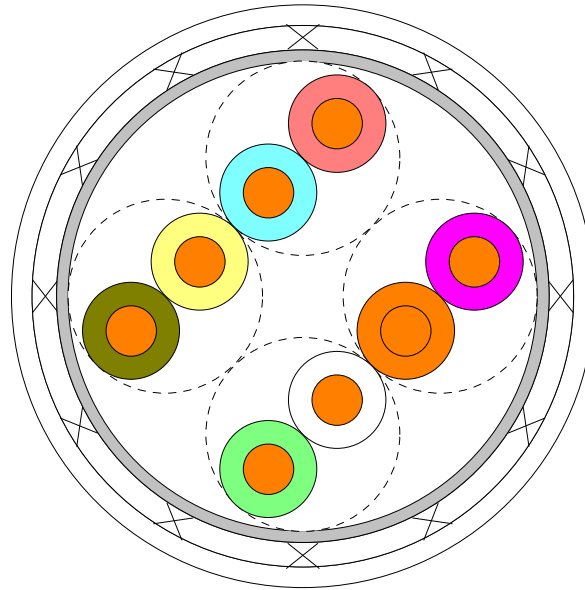
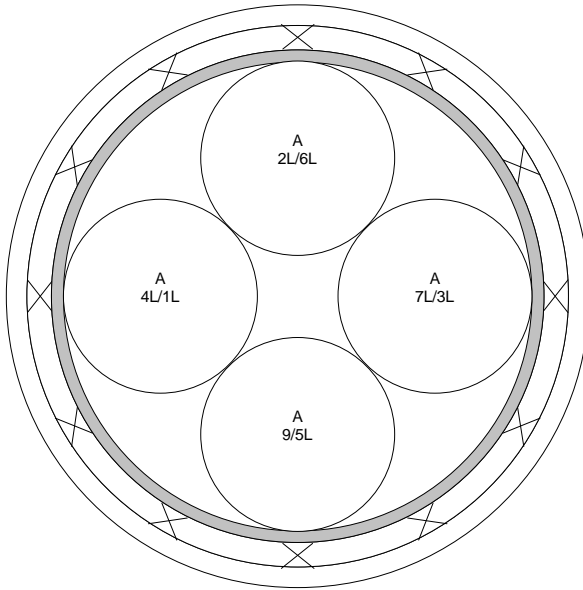


Identification, colors & marks

Cross section



Components

ID	Quantity	Part number	Description
A	4	EPD-RWC-20635	CAT5e Pair, TC

Cable

Outer	Description	Thickness		OD	
		Inches	mm	Inches	mm
Core				0.200	5.08
Wrap	Aluminised poly. - facing out-.0025	0.005	0.13	0.210	5.33
Shield	Round tinned copper 36 awg regular	0.011	0.27	0.231	5.86
Jacket	Thermorad HT white	0.009	0.22	0.249	6.31
Cable OD tolerance				+ 0.032	+ 0.81

Specification	Raychem SPEC 55A
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Weight	39.50 lb/kft	58.89 Kg/Km
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Continued

Physical properties

Jacket tensile strength	5000 psi minimum
Jacket elongation	50% minimum
Shield Coverage	85% minimum
Wrap	25% (minimum) overlap

Environmental properties

Flammability	Shall meet the requirements of FAR Part 25.869 (a)(4) Appendix F, Part I (a) (3) when tested in accordance with Appendix F Part I (b) (7).
Accelerated Aging	300 ± 3°C for 7 hours
Voltage Withstand	1000 volts (rms), 60 Hz, 1 minute. (Post Environmental) 1000 volts (rms), 60 Hz, 1 minute

Electrical properties

Voltage withstand (dielectric)	1000 volts (rms) conductor to conductor and shield 500 volts (rms) shield to shield when applicable per WC 27500. Coax Components to their own SCD
Jacket Flaws	Spark Test: 3 kV (rms) Impulse Dielectric Test: 6.0 kV (peak)
Additional Electricals	See Page 3

Notes

Colors	Color code designators shall be in accordance with MIL-STD-681.
Dimensions	Dimensions are in inches, and unless otherwise designated, are nominal.
Export License Note	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 for obtaining an export license if applicable.
Identification, Colors & Marks	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.
Minimum length	Cable will be supplied in 50 ft. minimum lengths unless otherwise specified
Part Number Note	Other codes and suffixes may be added to the Part Number as necessary, to capture any additional requirements imposed by the purchase order
Specification Information	This drawing is the property of Tyco Electronics Corporation and may not be used for any purpose other than for that which it is supplied without the express written authority of Tyco Electronics Corporation.
Trademarks	The TE logo, Tyco Electronics, Raychem and Thermorad are trademarks.
Nesting	Some components are nested. Their size on the drawing may be altered to reflect the effect of nesting.
Jacket identification	Mark: RAYCHEM - CEC-RWC-21064 - Year of Manufacture.
Pair Combinations	Pairs are defined as the following color combinations: Brown/Yellow, Blue/Red, Green/ White, Orange/Violet

TABLE I (Electrical Parameters)

Frequency (MHz)	Insertion Loss dB/100m (nom)	Return Loss dB/100m (min)	NEXT dB/100m (min)	ELFEXT dB/100m (min)	PS NEXT dB/100m (min)	PS ELFEXT dB/100m (min)	Propagation Delay ns/100m (max)
1.0	2.4	20.0	65.3	63.8	62.3	60.8	570
4.0	4.9	23.0	56.3	51.7	53.3	48.7	-
8.0	6.9	24.5	51.8	45.7	48.8	42.7	-
10	7.8	25.0	50.3	43.8	47.3	40.8	-
16	9.8	25.0	47.2	39.7	44.3	36.7	545
20	11.1	25.0	45.8	37.7	42.8	34.7	-
25	12.5	24.2	44.3	35.8	41.3	32.8	-
31.25	14.1	23.3	42.9	33.9	39.9	30.9	-
62.5	20.4	20.7	38.4	35.8	27.8	24.8	-
100	26.4	19.0	35.3	27.8	23.8	20.8	538

Note: Values in Table I are for reference only. Actual values shall be determined utilizing the formulas in ANSI/TIA-568-B.2.

Capacitance: Mutual Capacitance of a pair: 5.6 nF/100 meter (maximum) at 1 kHz.
 Pair to ground capacitance unbalance: 330 pF/100 meter (maximum) at 1 kHz.

Impedance: 100 ± 15 ohms at 1 to 100 MHz.

Electrical Testing: In accordance with ANSI/TIA-568-B.2.

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