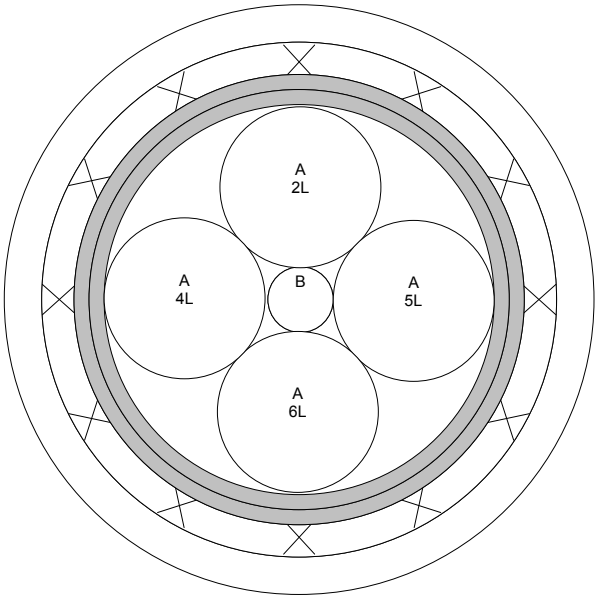
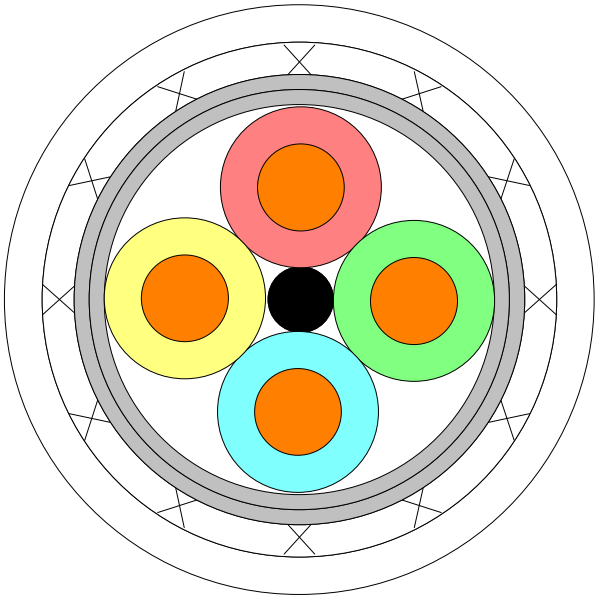
Identification, colors & marks



Cross section



Components

ID	Quantity	Part number	Description
A	4	RAYFOAM-H2444C4	Dielectric
B	1	FEP Filler .017	Filler

Cable

Outer		Description	Thickness Inches	*mm*	OD Inches	*mm*
Layer 1					0.104	*2.63*
	Wrap	Fluoropolymer Wrap .002"	0.004	*0.10*	0.112	*2.83*
	Wrap	Al.-PET .002"- Al. facing out	0.004	*0.10*	0.120	*3.04*
	Shield	Round tinned copper 38 awg regular	0.009	*0.22*	0.137	*3.47*
	Jacket	FEP clear	0.010	*0.25*	0.157	*3.98*
Cable OD tolerance					+ 0.006	*+ 0.15*
					- 0.006	*- 0.15*

Specification	Raychem Spec.1200	
Weight	21.37 lb/kft	*31.86 Kg/Km*

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This specification sheet takes precedence over documents referenced herein.
Referenced documents shall be of the issue in effect on date of invitation to bid.
Proposed specification control drawings may be altered prior to final issue.

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Continued

Physical properties

Jacket elongation	200% minimum
Jacket tensile strength	2000 psi minimum
Shield Coverage	85% minimum
Wrap (each)	25% (minimum) overlap
Marker Tape	There shall be a marker tape under the jacket: "RAYCHEM CEC-RWC-18664 06090 A - B". every other mark is an inverted mirror image. The orientation of the tape shall be as follows: The "A" end components shall be Red, Green, Blue and Yellow in a clockwise direction. The "B" end components shall be Red, Yellow, Blue, and Green in a clockwise direction.

Environmental properties

Flammability	Shall meet the requirements of FAR Part 25, Appendix F, Part I when tested in accordance with the 60 degree test specified therein.

Electrical properties

Voltage withstand (dielectric)	1000 volts (rms) conductor to conductor and shield 500 volts (rms) shield to shield when applicable per NEMA WC 27500. Coax components to their own SCD.
Jacket Flaws	Spark Test: 2.5 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	Raychem, Rayfoam, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks.
Nesting	Some components are nested. Their size on the drawing may be altered to reflect the effect of nesting.

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TABLE I (Electrical Parameters)

Frequency	Insertion Loss dB/100m (typical/maximum)	RL dB/100m (min)	NEXT dB/100m (min)	Propagation Delay ns/100m (max)
1 MHz	2.2/2.8	20.0	65.3	570
4 MHz	4.5/5.5	23.0	56.3	-
8 MHz	6.2/7.8	24.5	51.8	-
10 MHz	6.8/8.7	25.0	50.3	-
16 MHz	8.5/11.1	25.0	47.3	-
20 MHz	9.8/12.5	25.0	45.8	-
25 MHz	11 /14.1	24.2	44.3	-
31.25 MHz	12.3/15.8	23.3	42.9	-
62.5 MHz	18.6/22.9	20.7	38.4	-
100 MHz	24.8/29.7	19.0	35.3	538

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

Capacitance:	13.0 pF/ft. (nominal) at 1 kHz.
Impedance:	100 ± 10 ohms at 1 to 100 MHz.
Electrical Testing:	In accordance with ANSI/TIA-568-C.2.

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