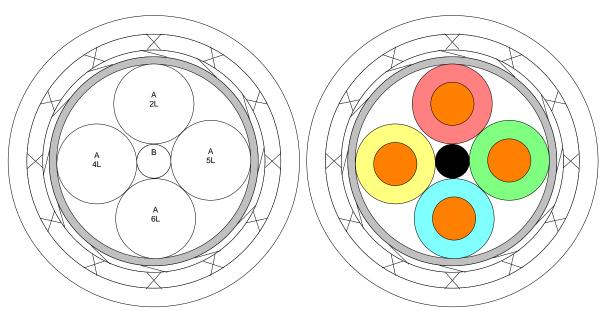


Specification Control Drawing

Identification, colors & marks

**Cross section** 



#### Components

ID	Quantity	Part number	Description
A	4	RAYFOAM-H2444C4	Dielectric
В	1	FIL-70-0.018	Solid FEP Filler 0.018 OD

## Cable

Outer	Description	Thickness		OD	
	-	Inches	mm	Inches	mm
Layer 1				0.104	2.63
Wrap	Fluoropolymer Wrap .002"	0.004	0.10	0.112	2.84
Shield	Flat silver copper 36 awg regular	0.004	0.09	0.119	3.01
Shield	Round silver copper 38 awg regular	0.009	0.22	0.136	3.45
Jacket	FEP white	0.010	0.25	0.156	3.95
Cable OD tolerance				+ 0.008	+ 0.20
Weight 23.77 lb/kft		35.45 Ka	n/Km		

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## Continued

# **Physical properties**

Jacket tensile strength	2000 psi minimum		
Jacket elongation	200% minimum		
Wrap	25% (minimum) overlap		
Flat Braid	Braid AWG under the Cable description is for calculation purposes only. Actual		
	AWG is optional to allow manufacturing to choose an AWG that best fits the design		
	The shield thickness shall have a thickness of .0015 ± .0004.		
Marker Tape	There shall be a marker tape under the jacket: "RAYCHEM CEC-RWC-18687		
-	06090 A-B"		
	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.		
Shield Coverage	92% minimum for flat shield. 85% minimum for round shield		
Testing	This cable is to be tested in accordance with SPEC 1200 as applicable		
Jacket Color	Color white for this cable is 9X, translucent white.		

## **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)	1500 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.	
Additional Electricals	See Page 3	
Jacket Flaws	Spark Test: 2.5 kV (rms). Impulse Dielectric Test: 6.0 kV (peak)	

#### Notes

Colors	Color code designators shall be in accordance with MIL-STD-681.	
Dimensions	Dimensions are in inches, and unless otherwise designated, are nominal.	
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	
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.	
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	
Nesting	Some components are nested. Their size on the drawing may be altered to reflect the effect of nesting.	
Export License Note	These commodities, technology, or software, when exported from the United	
-	States, are required to be exported in accordance with the Export Administration	
	Regulations. Diversion contrary to U.S. law is prohibited.	
Trademarks	Raychem, Rayfoam, TE Connectivity, TE connectivity (logo), and TE (logo) are trad	

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	Insertion Loss dB/100m	RL dB/100m (min)	NEXT dB/100m (min)	Propagation Delay ns/100m (max)
Frequency	(typical/maximum)			
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

# **TABLE I (Electrical Parameters)**

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: $100 \pm 10 \text{ ohms at 1 to 100 MHz.}$ Electrical Testing:In accordance with ANSI/TIA-568-C.2.

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