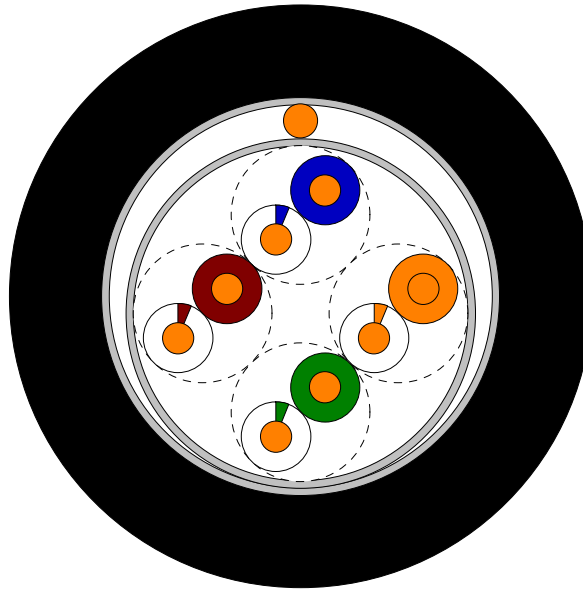
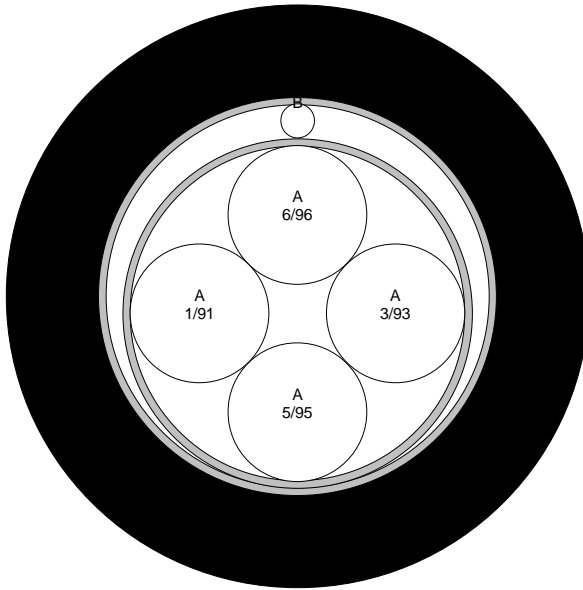


Identification, colors & marks

Cross section



Components

ID	Quantity	Part number	Description
A	4	CAT5e-24A9S	CAT5e Pair, AWG 24, solid conductor
B	1	DRAINWIRE-26C1	26 awg, 19/38 tin-coated copper

Cable

Outer	Description	Thickness		OD	
		Inches	mm	Inches	mm
Core				0.183	4.64
Wrap	PET tape .002"	0.004	0.10	0.191	4.84
Layer 1				0.209	5.31
Wrap	Al.-PET .002" - Al. facing in	0.004	0.10	0.217	5.51
Jacket	Zerohal black	0.051	1.28	0.318	8.08
Cable OD tolerance				+ 0.042	+ 1.07
				- 0.042	- 1.07

Specification	Raychem 345
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Weight	46.42 lb/kft	69.20 Kg/Km
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Continued

Physical properties

Jacket Wall	.040 inch minimum
Marker Tape	A marker tape, .10 inch wide (min) shall be placed directly under the AL-PET wrap, with printed side facing out. The tape shall be marked in contrasting ink at 12 inch (max) intervals as follows: RAYCHEM - REDWOOD CITY, CA - Year of Manufacture - MIL-DTL-24643-* (* = Serial Number) The serial number shall be sequential and shall not be repeated in any one calendar year for any one type and size of cable.
Component A	The white component in each pair may be striped, band or dash marked.

Electrical properties

Additional Electricals	See Page 3
Voltage withstand (dielectric)	1500 volts (rms) conductor to conductor and shield 500 volts (rms) shield to shield when applicable. Coax components to their own SCD.

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	These commodities, technology, or software must be exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.
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, Zerohal, 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.
Cable Type Number	MIL-DTL-24643/59 Type LSC5FS-4
Jacket identification	Mark: RAYCHEM LSC5FS-4 M24643/59-01UO Year of Manufacture XLPOLYO.



CEC-RWC-18982
 8 conductor cable
 Issue: D 4/20/2015

TABLE I (Electrical Parameters)

Frequency (MHz)	Insertion Loss dB/100m (max)	Return Loss dB/100m (min)	NEXT dB/100m (min)	ACRF (ELFEXT) dB/100m (min)	PS NEXT dB/100m (min)	PSACRF (PS ELFEXT) dB/100m (min)	Propagation Delay ns/100m (max)
1.0	2.0	20.0	65.3	63.8	62.3	60.8	570
4.0	4.1	23.0	56.3	51.8	53.3	48.8	552
8.0	5.8	24.5	51.8	45.7	48.8	42.7	547
10	6.5	25.0	50.3	43.8	47.3	40.8	545
16	8.2	25.0	47.2	39.7	44.2	36.7	543
20	9.3	25.0	45.8	37.7	42.8	34.7	542
25	10.4	24.3	44.3	35.8	41.3	32.8	541
31.25	11.7	23.6	42.9	33.9	39.9	30.9	540
62.5	17.0	21.5	38.4	27.9	35.4	24.9	539
100	22.0	20.1	35.3	23.8	32.3	20.8	538

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

Capacitance: Mutual Capacitance of a pair: 5.6 nF/100 meter (nominal) 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. (for reference only)
 Delay Skew: 45 ns/100 meter (maximum) at 1 to 100 MHz.
 Electrical Testing: In accordance with ANSI/TIA-568-C.2.