SPECIFICATION CONTROL DRAWING

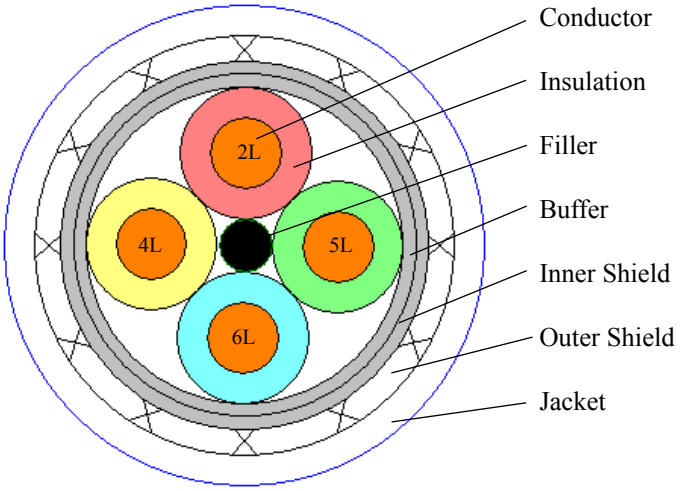
THX-26C422-814

QUADRAX CABLE, 100 BASE-T, ETHERNET, AWG 26

Date: 11/6/2012
Issue: SMO1

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS



Single Component		**Dimensions inches (nom)**
Conductor:	AWG 26 19/38, silver-coated high strength copper alloy	.0185
Insulation:	Rayfoam H (foamed FEP)	.037
Cable Assembly		
Filler:	Solid FEP	.015
Layer 1:	4 single components	.088
Buffer:	Fluoropolymer wrap, 002 inch thick (nom), 25% overlap (min).	.096
Inner Shield:	Aluminum/PET wrap, .002 inch thick (nom), Aluminum. facing out, 25% overlap (min).	.104
Outer Shield:	AWG 38, tin-coated copper	.121
Jacket:	Modified FEP .010 inch thickness	.144 ± .007
Cable Weight	17.71 lbs/kft	

Designate outer jacket color with a dash number appended to the part number.
Example: Clear; THX-26C422-814-X.

TABLE I

Single Components	Pair	Wire Insulation color
1	1	2L (light red)
2	2	5L (lightgreen)
3	1	6L (light blue)
4	2	4L (light yellow)

Color code designators shall be in accordance with MIL-STD-681. An "L" after the number indicates a light color.

ELECTRICAL CHARACTERISTICS

TABLE II

Frequency MHz	Insertion Loss dB/100m (max)	Return Loss dB/100m (min)	NEXT dB/100m (min)	Propagation Delay ns/100m (max)
1	3.3	20.0	65.3	570
4	6.7	23.0	56.3	--
8	9.5	24.5	51.8	--
10	10.7	25.0	50.3	--
16	13.4	25.0	47.3	--
20	15.3	25.0	45.8	--
25	17.1	24.2	44.3	--
31.25	19.2	23.3	42.9	--
62.5	27.9	20.7	38.4	--
100	36.1	19.0	35.3	538

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

Impedance:	100 ± 10 ohms at 1 to 100 MHz.
Mutual Capacitance:	13.0 pF/ft. (nominal) at 1 kHz.
Conductor DC Resistance:	44.4 ohms/1000ft (nominal) @ 20°C
Velocity of Propagation:	72% (nominal)

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

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating:	-65°C to 150°C
Voltage Withstand:	1000 volts (rms), conductor to conductor and shield
Flammability:	Finished cable shall meet the requirements of FAR Part 25, Appendix F, Part I when tested in accordance with the 60° test specification herein.
Marker Tape:	There shall be a marker tape under the jacket with the following legend: "RAYCHEM THX-26C422-814 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.
Outer Shield:	85% (min) coverage.

Cable will be supplied in 50 ft minimum lengths unless otherwise specified.

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Raychem Wire & Cable
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Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order. Users should evaluate the suitability of this product for their application. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.
This specification sheet takes precedence over documents referenced herein. Referenced documents shall be of the issue in effect on date of invitation for bid.