

SPECIFICATION CONTROL DRAWING

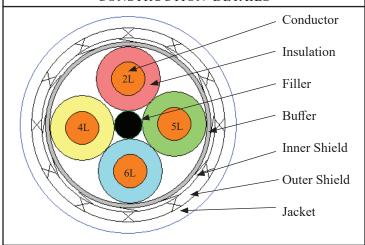
THX-24C422-424

Date: 1/8/2020 Issue: C Page 1 of 1

QUADRAX CABLE, 100 BASE-T, ETHERNET, AWG 24

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

CONSTRUCTION DETAILS



Single Component	<u>Dimensions</u> inches (nom)				
Conductor:	AWG 24 19/36, silver-coated high strength copper alloy	.0235			
Insulation:	Foamed FEP	.044			
Cable Assembly					
Filler:	Solid FEP	.018			
Layer 1:	4 single components	.104			
Buffer:	Fluoropolymer wrap, 002 inch thick (nom), 25% overlap (min).	.112			
Inner Shield:	Flat, .0015 inch strand thickness, silver-coated copper, 92% min coverage.	.119			
Outer Shield:	AWG 38, silver-coated copper, 85% min coverage.	.136			
Jacket:	FEP .010 inch thickness	.156 +.008			
Cable Weight	23.80 lbs/kft (nominal)				

Designate outer jacket color with a dash number appended to the part number. Example: Clear; THX-24C422-424-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.

TE Connectivity Corporation Raychem Wire & Cable 501 Oakside Avenue Redwood City, California 94063-3800 1-800-522-6752 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. TE Connectivity 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.

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ELECTRICAL CHARACTERISTICS

		TABLE II		
Frequency MHz	Insertion Loss dB/100m (typical/max)	Return Loss dB/100m (min)	NEXT dB/100m (min)	Propagation Delay ns/100m (max)
1	2.2/2.8	20.0	65.3	570
4	4.5/5.5	23.0	56.3	-
8	6.2/7.8	24.5	51.8	-
10	6.8/8.7	25.0	50.3	-
16	8.5/11.1	25.0	47.3	-
20	9.8/12.5	25.0	45.8	-
25	11/14.1	242	44.3	-
31.25	12.3/15.8	23.3	42.9	-
62.5	18.6/22.9	20.7	38.4	-
100	24.8/29.7	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-568.2 (issue in effect).

Impedance: 100 ± 10 ohms at 1 to 100 MHz.Mutual Capacitance:13.0 pF/ft. (nominal) at 1 kHz.Conductor DC Resistance:27.8 ohms/1000ft (nominal) @ 20° CVelocity of Propagation:77% (nominal)

velocity of Fropagation. 7770 (nominal)

Electrical Testing: In accordance with ANSI/TIA-568.2 (issue in effect).

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: -65°C to 200°C

Voltage Withstand: 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.

Jacket Tensile Strength: 2000 psi minimum
Jacket Elongation: 200% minimum
Jacket Flaws: Spark Test: 2.5 kV (rms)

Impulse Dielectric Test: 6.0 kV (peak)

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-24C422-424 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.

Specification: Spec1200

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

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