

SPECIFICATION CONTROL DRAWING

THX-24C422-424

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

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

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CONSTRUCTION DETAILS		
	Conductor	
	Insulation	
	Filler	
	Buffer	
	Inner Shield	
A GL	Outer Shield	
A A A	Jacket	

Single Componer	<u>nt</u>	<u>Dimensions</u> inches (nom)	
Conductor:	AWG 24 19/36, silver-coated high strength copper alloy	.0235	
Insulation:	Foamed FEP	.044	
Cable Assembly	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 by the purchase order. Users should evalu Corporation also reserves the right to mak 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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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

ELECTRICAL CHARACTERISTICS

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:
Mutual Capacitance:
Conductor DC Resistance:
Velocity of Propagation:

 100 ± 10 ohms at 1 to 100 MHz. 13.0 pF/ft. (nominal) at 1 kHz. 27.8 ohms/1000ft (nominal) @ 20°C 77% (nominal)

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

	ADDITIONAL REQUIREMENTS & RATINGS		
	Temperature Rating: Voltage Withstand:	-65°C to 200°C 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:		
	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.	
		There shall be a marker tape under the jacket with the following legend:"RAYCHEM THX-24C422-424 06090 A - B"	
	1	ther mark is an inverted mirror image. The	
		orientation of the tape shall be as follows: The "A" end	
	1	nents shall be Red, Green, Blue and Yellow in a	
		ise direction. The "B" end components shall be ellow, Blue, and Green in a clockwise direction.	
	Specification: Spec12		
	Cable will be supplied in 50 ft minimum lengths unless otherwise specified.		
ua	the part number, as necessary, to capture any additional requirements imposed the suitability of this product for their application. TE Connectivity		
	ke changes in materials or processing, which do not affect compliance with any er.		
0	over documents referenced herein. Referenced documents shall be of the issue in		

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