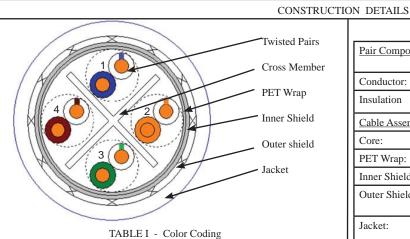


### SPECIFICATION CONTROL DRAWING

### CAT6a CABLE, AWG 24

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THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPEC:	WCD 3301
THIS SPECIFICATION SHEET FORMS A FART OF THE LATEST ISSUE OF RATCHEM SPEC.	WCD 3301



Pair #	Conductor #1	Conductor #2	
1	96 (white/blue stripe)	6 (blue)	
2	93 (white/orange stripe)	3 (orange)	
3	95 (white/green stripe)	5 (green)	
4	91 (white/brown stripe)	1 (brown)	

TABLE II						
Pair Component		Dimensions inches (nom)				
Conductor:	AWG 24, 7/32 Tin-coated Copper	.0240				
Insulation	HDPE	.0490				
Cable Assembly	Cable Assembly					
Core:	4 Pairs w/crossmember	.251				
PET Wrap:	PET tape .001 inch thickness	.255				
Inner Shield:	AL/PET .002 inch thickness; facing out	.263				
Outer Shield:	AWG 36, tin-coated copper Optimized- Coverage: 92% (min)	.284				
Jacket:	Thermorad F Coyote Brown025 inch thickness	.334 + .017				
Cable Weight:	53.93 lbs/kft					

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

#### ELECTRICAL CHARACTERISTICS

				TA	BLE III				
Frequency MHz	Insertion Loss dB/100m (max)	Return Loss dB/100m (min)	NEXT dB/100m (min)	ACRF dB/100m (min)	PS NEXT dB/100m (min)	PSACRF dB/100m (min)	TCL dB/100m (min)	ELTCL dB/100m (min)	Propagation Delay ns/100m (max)
1	2.4	20.0	74.3	67.8	72.3	64.8	40.0	35.0	670
4	4.6	23.0	65.3	55.8	63.3	52.8	40.0	23.0	649
8	6.4	24.5	60.8	49.7	58.8	46.7	40.0	16.9	643
10	7.1	25.0	59.3	47.8	57.3	44.8	40.0	15.0	641
16	9.0	25.0	56.2	43.7	54.2	40.7	38.0	10.9	638
20	10.0	25.0	54.8	41.8	52.8	33.8	37.0	9	637
25	11.3	242	53.3	39.8	51.3	36.8	36.0	7	636
31.25	12.6	23.3	51.9	37.9	49.9	34.9	35.1	5.5	635
62.5	18.0	20.7	47.4	31.9	45.4	28.9	32.0		634
100	22.9	19.0	44.3	27.8	42.3	24.8	30.0		633
200	33.1	16.4	39.8	21.8	37.8	18.8	27.0		632
250	37.3	15.6	38.3	19.8	36.3	16.8	26.0		631
300	41.2	14.9	37.1	18.3	35.1	15.3	25.2		631
400	48.1	13.8	35.3	15.8	33.3	12.8	24.0		631
500	54.4	13.0	33.8	13.8	31.8	10.8	23.0		631

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

(Electrical Characteristics continued on Page 2)

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.

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

TE Connectivity Corporation

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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## SPECIFICATION CONTROL DRAWING

# C6A-24B134XK13B

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		Page 2 of 2			
ELECTRIC	AL CHARACTERISTICS (CONTINUED)				
Electrical Testing: In accordance with ANSI/TIA-568-C.2.					
Impedance:	100 ohms (nominal) at 1 to 500 MHz.				
Capacitance:	Mutual Capacitance: 5.6 nF/100 m (nom) at 1 kHz.				
	Pair to ground capacitance unbalance: 330 pF/100 m (max) at 1 kHz				
Optimized shield:	Maximum surface transfer impedance of 100 milli ohms/ meter at 30 Mhz				
Shield AWG:	Shield AWG is nominal to allow for changes to meet the surface transfer impedance.				
Velocity of Propagati	on: 67% (nominal)				
Insertion Loss Note:	IL values IAW TIA 568-C.2 24 AWG stranded (120% of solid conductor values)				
Conductor DC Resistance: 14 ohms/100m (max) (TIA 568C.2) Unbalance: 4% maximum					
ADDITIO	NAL REQUIREMENTS & RATINGS 1500 volts (rms), conductor to conductor and shield. 500 volts (rms) shield to shield when applicable Coax components to their own SCD				
Specification:	Spec 1200 (Electricals Only)				
Jacket Wall:	.015 inch minimum, .030 inch maximum.				
Jacket Identification: RAYCHEM - C6A-24B134XK13B - Year of Manufacture.					
Cable will be supplied in 50 ft. minimum lengths unless otherwise specified .					

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