



SPECIFICATION CONTROL DRAWING

C6A-26C444X824

CAT6a CABLE, AWG 26

Date: 3/21/2017
Issue: B
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THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

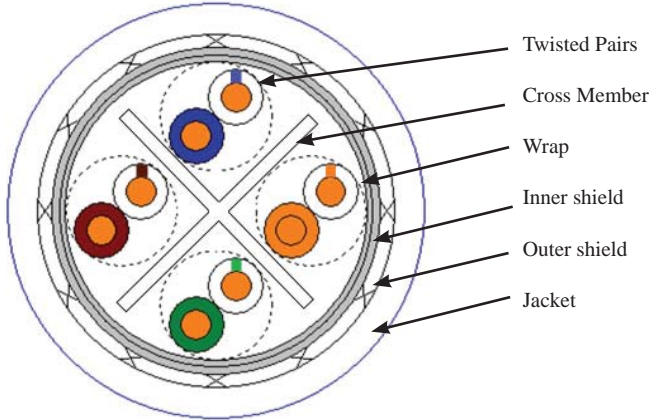


TABLE I - Color Coding

Pair #	Conductor #1	Conductor #2
1	9 (white/blue stripe)	6 (blue)
2	9 (white/orange stripe)	3 (orange)
3	9 (white/green stripe)	5 (green)
4	9 (white/brown stripe)	1 (brown)

TABLE II

Pair Component		Dimensions inches (nom)
Conductor:	AWG 26 19/38, silver high strength copper alloy	.0185
Insulation	FEP (Pair # 1 & 3)	.036
	FEP (Pair # 2 & 4)	.035
Cable Assembly		
Core:	4 Pairs	.179
Wrap:	PTFE .002" inch thick	.187
Inner Shield:	Al./ PET Wrap, .0025 inch thick, facing out	.197
Outer Shield:	AWG 38, silver-coated copper Coverage: 85% (min)	.214
Jacket:	FEP, .015 inch thickness	.243 - .010 +.009
Weight:	38.67 lb/kft	

Designate outer jacket color with a dash number appended to the part number.
Example: Clear jacket; C6A-26C444X824-X
Color code designators shall be in accordance with MIL-STD-681. An "L" after the number indicates a light color.

ELECTRICAL CHARACTERISTICS

TABLE 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	3.1	20.0	74.3	67.8	72.3	64.8	40.0	35.0	570
4	5.7	23.0	65.3	55.8	63.3	52.8	40.0	23.0	552
8	8.0	24.5	60.8	49.7	58.8	46.7	40.0	16.9	547
10	8.9	25.0	59.3	47.8	57.3	44.8	40.0	15.0	545
16	11.2	25.0	56.2	43.7	54.2	40.7	38.0	10.9	543
20	12.6	25.0	54.8	41.8	52.8	33.8	37.0	9	542
25	14.1	24.2	53.3	39.8	51.3	36.8	36.0	7	541
31.25	15.8	23.3	51.9	37.9	49.9	34.9	35.1	5.5	540
62.5	22.5	20.7	47.4	31.9	45.4	28.9	32.0	--	539
100	28.7	19.0	44.3	27.8	42.3	24.8	30.0	--	538
200	41.4	16.4	39.8	21.8	37.8	18.8	27.0	--	537
250	46.7	15.6	38.3	19.8	36.3	16.8	26.0	--	536
300	51.4	14.9	37.1	18.3	35.1	15.3	25.2	--	536
400	60.1	13.8	35.3	15.8	33.3	12.8	24.0	--	536
500	67.9	13.0	33.8	13.8	31.8	10.8	23.0	--	536

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)

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Raychem Wire & Cable
501 Oakside Avenue
Redwood City, California 94063-3800
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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. 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 (CONTINUED)

Electrical Testing: In accordance with ANSI/TIA-568-C.2.
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.
Impedance: 100 ohms (nominal) at 1 to 500 MHz. (for reference only).
Conductor DC Resistance: 43.9 ohms/1000ft (nominal) @ 20°C
Velocity of Propagation: 70% (nominal)

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: -55°C to 150°C

Voltage Withstand: 1000 volts (rms), conductor to conductor and shield.
500 volts (rms) shield to shield when applicable per NEMA WC 27500.

Tensile Strength: 2000 psi (minimum)
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.

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