SPECIFICATION CONTROL DRAWING

C6A-26C444XB2MA

CAT6a CABLE, AWG 26

Date: 9/5/2019
Issue: B

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

CONSTRUCTION DETAILS

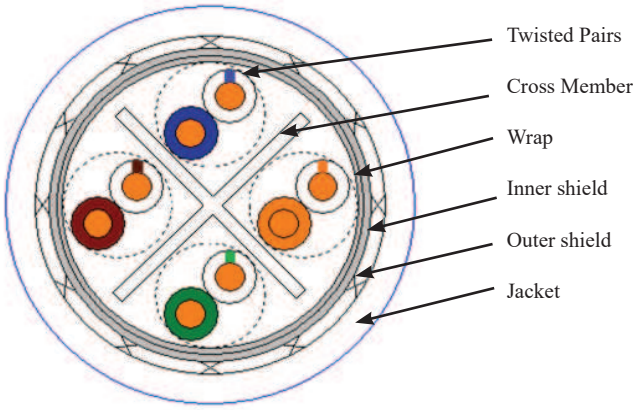

TABLE I - Color Coding

Pair #	Conductor #1	Conductor #2
1	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 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-Polyimide, Al facing out	.195
Outer Shield:	AWG 40, silver-coated copper Coverage: 92% (min)	.208
Jacket:	FEP-LM, .015 inch thickness	.238 +.012
Weight:	45.00 lb/kft (max)	

Designate outer jacket color with a dash number appended to the part number.
Example: White jacket; C6A-26C444XB2MA-9
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/65m (max)	Return Loss dB/100m (min)	NEXT dB/100m (min)	ACRF dB/65m (min)	PS NEXT dB/100m (min)	PSACRF dB/65m (min)	TCL dB/100m (min)	ELTCL dB/100m (min)	Propagation Delay ns/100m (max)
1	2.1	20.0	74.3	67.8	72.3	64.8	40.0	35.0	570
4	3.8	23.0	65.3	55.8	63.3	52.8	40.0	23.0	552
8	5.3	24.5	60.8	49.7	58.8	46.7	40.0	16.9	547
10	5.9	25.0	59.3	47.8	57.3	44.8	40.0	15.0	545
16	7.5	25.0	56.2	43.7	54.2	40.7	38.0	10.9	543
20	8.4	25.0	54.8	41.8	52.8	38.8	37.0	9	542
25	9.4	24.3	53.3	39.8	51.3	36.8	36.0	7	541
31.25	10.5	23.6	51.9	37.9	49.9	34.9	35.1	5.5	540
62.5	15.0	21.5	47.4	31.9	45.4	28.9	32.0	--	539
100	19.1	20.1	44.3	27.8	42.3	24.8	30.0	--	538
200	27.6	18.0	39.8	21.8	37.8	18.8	27.0	--	537
250	31.1	17.3	38.3	19.8	36.3	16.8	26.0	--	536
300	34.3	16.8	37.1	18.3	35.1	15.3	25.2	--	536
400	40.1	15.9	35.3	15.8	33.3	12.8	24.0	--	536
500	45.3	15.2	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)

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 (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.

Conductor DC Resistance: 43.9 ohms/1000 ft (nominal) @ 20°C

Velocity of Propagation: 70% (nominal)

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: -55°C to 200°C

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

Jacket:
Tensile Strength: 2000 psi (minimum)
Elongation: 200% (minimum)

Jacket Flaws: Spark test: 2.5 kV (rms)
Impulse dielectric test: 6.0 kV (peak)

Flammability: Shall meet the requirements of FAR Part 25, Appendix F, Part I, when tested in accordance with the 60° test specified therein.

Jacket Identification: "RAYCHEM - C6A-26C444XB2MA - 06090"
Mark shall be legible and permanent. The laser mark contrast test is not applicable for this mark.

UV Laser Mark Contrast: 50% min Per SAE AS4373, Method 1001, as measured on a laser marked block print sample.

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

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