



SPECIFICATION CONTROL DRAWING

3EQ-24C222-32M

IEEE 1394B QUAD CABLE, AWG 24

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Revision: B
Page 1 of 1

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

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

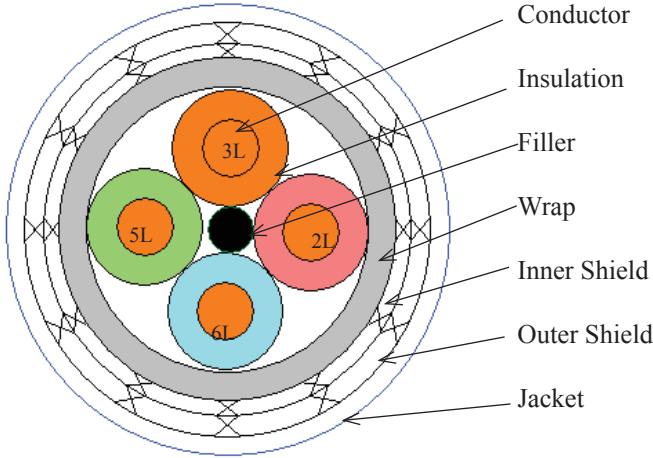


TABLE II

Frequency MHz	Attenuation dB/100 ft (max)
100	6.8
250	10.9
500	15.5
1000	26.0

Impedance (Differential): 110 +6/-4 ohms TDR rise time <80 ps
 Impedance (Common Mode): 33 ± 6 ohms TDR rise time <80 ps
 Crosstalk: 26 dB (minimum) 1-500 MHz
 Capacitance: 13 pF/ft. (maximum) at 1 kHz.
 Conductor DC Resistance: 23.0 ohms/1000ft (nominal)
 Time Delay: 1.31 ns/ft (maximum)
 Time Delay Skew: 200 ps/50 ft (maximum), within pairs
 Time Delay Skew Between Pairs: 400 ps/4.5 m (maximum)
 Velocity of Propagation: 81% (nominal)
 Eye Pattern: Eye pattern to have zero violations on eye mask of 450mVp-p X 1000 ps for 65 ft sample.

Single Component		Dimensions
Conductor:	AWG 24, 19/36, silver-coated copper	.025
Insulation:	Foamed FEP	.051 (.056 max)
Cable Assembly		
Core:	Solid FEP filler	.020
Layer 1:	4 singles	.122
Wrap:	ePTFE .003" Tape 75% overlap (nom)	.146
Inner Shield:	AWG 40, silver-coated copper	.159
Outer Shield:	AWG 38, silver-coated copper	.176
Jacket:	FEP .008 inch thickness	.192 (max)
Weight:	32.6 lbs/kft (max)	

(Dimensions are in inches and unless otherwise specified are nominal.)

TABLE I

Single Wire	Pair	Wire Insulation color
1	1	3L (light orange)
2	2	2L (light red)
3	1	6L (light blue)
4	2	5L (light green)

Designate outer jacket color with a dash number appended to the part number.
 Example: White jacket; 3EQ-24C222-32M-9.

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

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: -65°C to 200°C
 Voltage Withstand: 1500V (rms), conductor to conductor; 1000V (rms) conductor to shield.
 Cold Bend: -55° C; 6 inch Mandrel: 4 hours
 Blocking: 200° C; 6 inch Mandrel: 6 hours
 Flammability: Spec 1200 Method B
 Thermal Shock: 230° C; 1.75" Mandrel; 4 hours per NEMA WC 27500
 Jacket Flaws: Spark Test 1.5 kV (rms)
 Impulse Dielectric Test: 6.0 kV (peak)
 Jacket Elongation: 200% minimum
 Jacket Tensile Strength: 2000 psi minimum
 Cable will be supplied in 50 ft minimum lengths unless otherwise specified

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. Tyco Electronics 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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