

SPECIFICATION CONTROL DRAWING

3EQ-24C222-32M

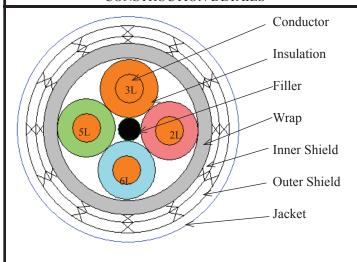
IEEE 1394B QUAD CABLE, AWG 24

.192 (max)

Date: 3/1/2016 Revision: B Page 1 of 1

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

CONSTRUCTION DETAILS



| Single Component | Γ | Dimensions |
|------------------|-----------------------------------|-----------------|
| Conductor: | AWG 24, 19/36, silver-coated | .025 |
| | copper | |
| 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 | 1) .146 |
| Inner Shield: | AWG 40, silver-coated copper | .159 |
| Outer Shield: | AWG 38, silver-coated copper | .176 |

92% coverage (minimum)(each)

Jacket: FEP .008 inch thickness

Weight:

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

32.6 lbs/kft (max)

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.

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.

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

200° C; 6 inch Mandrel: 6 hours Blocking:

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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