

CONSTRUCTION: QUAD CABLE

- A. CONDUCTOR: AWG 24(19/36) SPC
- B. PRIMARY INSULATION – ePTFE (AGAINST CONDUCTOR)
- C. SECONDARY INSULATION – PTFE
COLORS: RD x GN, BU x OR
OVERALL DIAMETER: (0.055)
- D. FILLER: FEP, (0.022) DIAMATER
- E. BINDER: ePTFE
- F. SHIELD #1: AWG 40(1) SPC BRAID, 92% MIN. COVERAGE
- G. SHIELD #2: AWG 38(1) SPC BRAID, 92% MIN. COVERAGE
- H. JACKET: .003 MIN. WALL LASER MARKABLE WHITE HSTF
OVERALL DIAMETER: .176 TYP., .186 MAX.

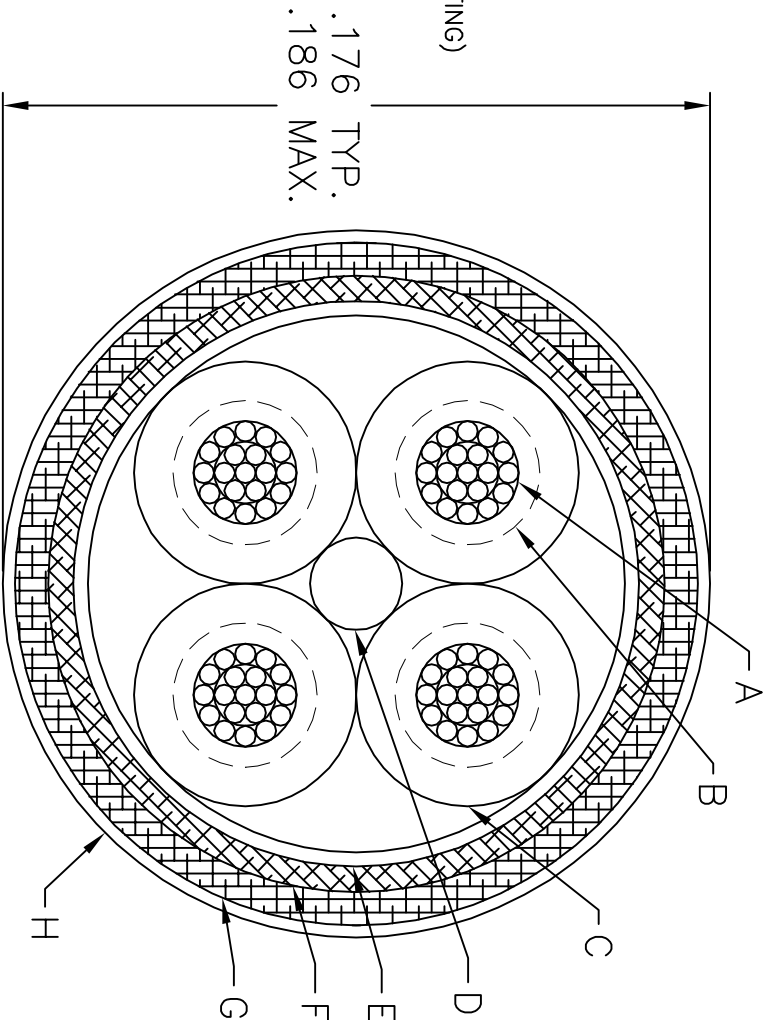
ELECTRICAL REQUIREMENTS (MEASURED ON 50 FT SAMPLE):

- 1. IMPEDANCE: 110 +6/-4 OHMS MEASURED DIFFERENTIALLY
- 2. CAPACITANCE: 11.0 ± 1.0 pF/ft (BETWEEN PAIRS, GROUND FLOATING)
- 3. TIME DELAY: (1.25) ns/ft
- 4. ATTENUATION: 6.8 dB/100 ft MAX. @ 100 MHZ
10.9 dB/100 ft MAX. @ 250 MHZ
15.5 dB/100 ft MAX. @ 500 MHZ
22.5 dB/100 ft MAX. @ 1 GHZ
- 5. DIELECTRIC WITHSTANDING VOLTAGE:
1500 Vrms (CONDUCTOR/CONDUCTOR)
1000 Vrms (CONDUCTOR/SHIELD)
- 6. SKEW: 200.0 ps/50 ft MAX. WITHIN PAIR

OTHER REQUIREMENTS:

- 1. WEIGHT: 31.0 lbs./ 1000 ft. MAX.
- 2. TEMPERATURE: -55 TO +200 C°
- 3. MARKING: MANUFACTURER'S PART NUMBER AND CAGE CODE PER NEMA-WC27500
- 4. FUNCTIONAL CHARACTERISTICS: MEETS OR EXCEEDS NEMA-WC27500 SECTION 3.8

REV	DESCRIPTION	DATE	CHG'D B
B	Construc. Changes & Note Changes	30 MAR 2006	EL
C	Impedance & Capacitance Change	05 MAY 2006	EL
D	Changed Tolerance On Overall Insulation	02 APR 2012	EL



PARENTHESES DENOTE REFERENCE DIMENSIONS DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING DEBURR SHARP EDGES Third Angle Projection INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (R1999)		UNLESS OTHERWISE SPECIFIED .X ± n/a .XX ± n/a .XXX ± n/a .XXXX ± n/a FRACTIONS ± n/a ANGLES ± n/a SURFACE TEXTURE n/a BREAKS AND FILETS n/a MAX	
Title 110 OHM QUAD CABLE, AWG 24		Dwg Size A Sheet 1 of 1 Scale 20:1 Rev Date 02 APR 2012	
Associated Documents: PMPWPS-5330 ECL 08 MAR 2006 Rev Lave D		Drawing Number RCN 8647	



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