

CONSTRUCTION: QUAD CABLE

- A. CONDUCTOR: AWG 24(19/36) SPC  
PRIMARY INSULATION – ePTFE (AGAINST CONDUCTOR)  
SECONDARY INSULATION – PTFE  
COLORS: RDxGN, BUxOR
- B. FILLER: FEP, (0.022) DIAMETER
- C. OVERALL BINDER: ePTFE
- D. OVERALL SHIELD #1: AWG 40(1) SPC BRAID
- E. OVERALL SHIELD #2: AWG 38(1) SPC BRAID
- F. OVERALL JACKET: .010 MIN. WALL BLUE FEP  
OVERALL DIAMETER: .190 TYP., .200 MAX.

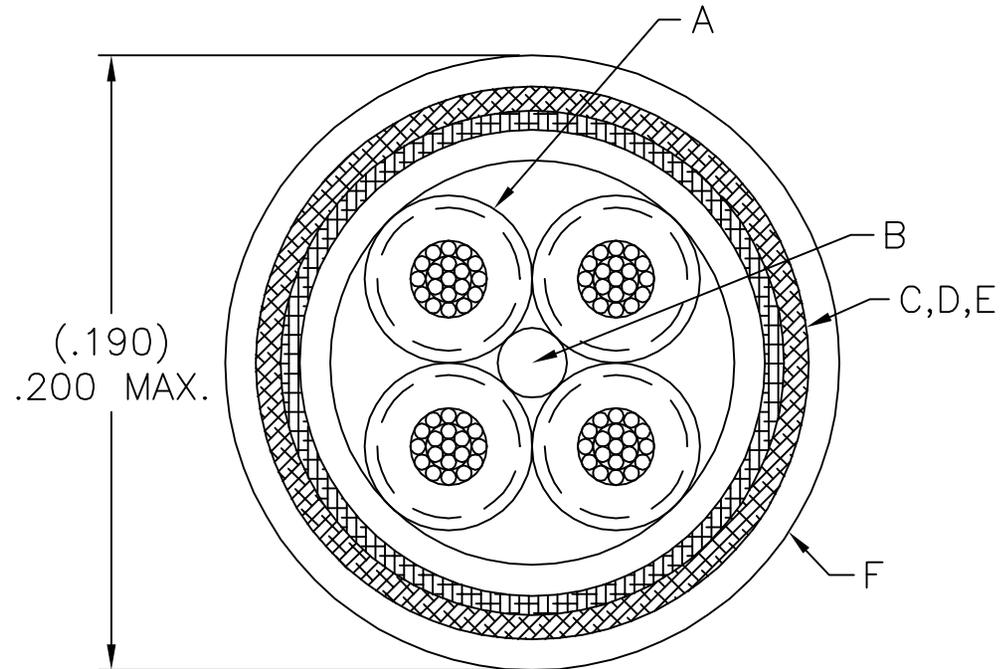
ELECTRICAL REQUIREMENTS:

- 1. IMPEDANCE: 110 ± 6 OHMS MEASURED DIFFERENTIALLY
- 2. CAPACITANCE: (12.0) pf/ft (BETWEEN PAIRS, GROUND FLOATING)
- 3. TIME DELAY: (1.25) ns/ft
- 4. ATTENUATION: 6.8 dB/100 ft MAX. @ 100 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: 100 ps/50ft TYP., 175 ps/50ft MAX. WITHIN PAIR

OTHER REQUIREMENTS:

- 1. WEIGHT: 37.5 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

REVISIONS			
REV	DESCRIPTION	DATE	CHG'D B'
01	PROTOTYPE RELEASE	08 SEP 2010	-



PARENTHESES DENOTE REFERENCE DIMENSIONS	
DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING	.X ± n/a
DEBURR SHARP EDGES	.XX ± n/a
	.XXX ± n/a
	.XXXX ± n/a
	FRACTIONS ± n/a
Third Angle Projection	ANGLES ± n/a
	SURFACE TEXTURE n/a ✓
INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (R1999)	BREAKS AND FILLETS n/a MAX



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Title 110 OHM QUAD CABLE - AWG 2419				
Dwg Size A	Sheet 1 of 1	Scale 15:1	Associated Documents: EM2 SPEC-XXXX	Drawn By ECL
Rev Date 08 SEP 2010	Drawing Number RCN 8989		08 SEP 2010 Rev Level 01	