

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  
O.D. 0.054 MAX.

- D. FILLER: FEP, .022 DIA. NOM.
- 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):

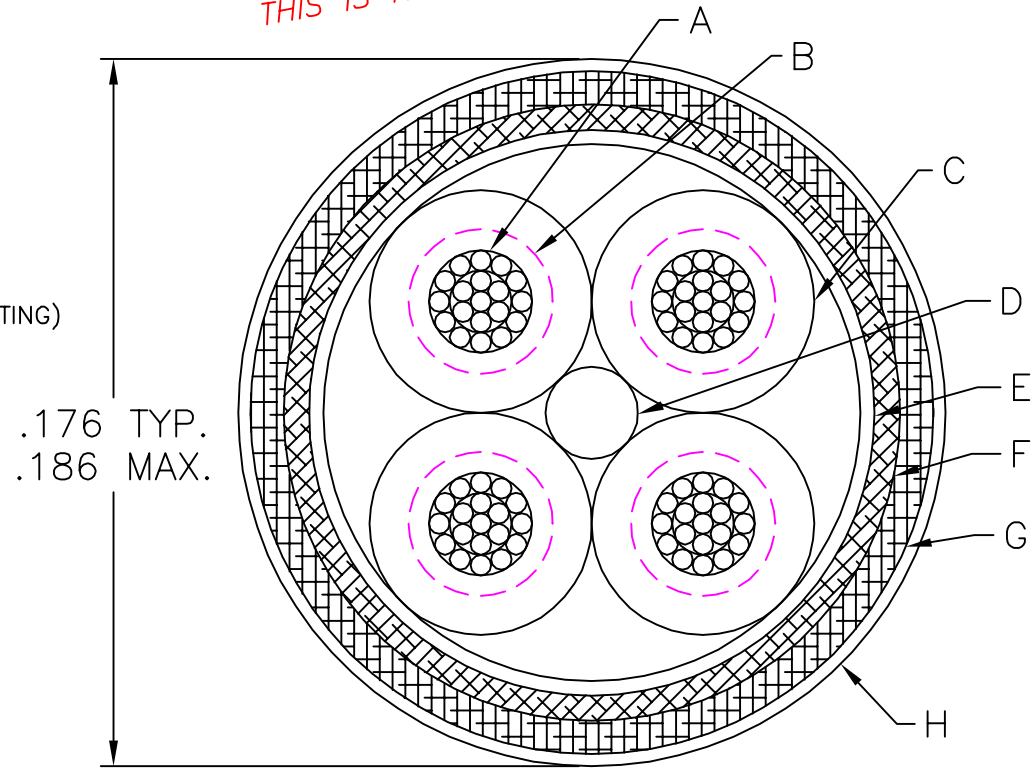
1. IMPEDANCE: 110 +6/-4 OHMS MEASURED DIFFERENTIALLY
2. CAPACITANCE: 11.0 ± 1.0 pf/ft (BETWEEN PAIRS, GROUND FLOATING)
3. TIME DELAY: 1.25 ns/ft NOM.
4. ATTENUATION: 6.8 dB/100 ft MAX. @ 100 MHz  
10.9 dB/100 ft MAX. @ 250 MHz  
15.5 dB/100 ft MAX. @ 500 MHz  
22.5 dB/100 ft MAX. @ 1 GHz
5. DIELECTRIC 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. FUNCTIONAL CHARACTERISTICS: MEETS OR EXCEEDS NEMA-WC27500 SECTION 3.8

REVISIONS			
REV	DESCRIPTION	DATE	CHG'D BY
A	PRODUCTION RELEASE	20 SEP 2006	-

THIS IS NOT A CONTROLLED DOCUMENT



ALL NOMINAL DIMENSIONS HAVE A TOLERANCE OF ± 10%	
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 <b>110 OHM QUAD CABLE, AWG 24</b>			
Dwg Size <b>A</b>	Sheet 1 of 1	Scale 20:1	Checked By ECL
Rev Date 20 SEP 2006	Drawing Number <b>RCN 8687</b>		Drawn By ECL 20 SEP 2006 Rev Level <b>A</b>