

REVISIONS			
Rev	Description	Date	Chg'd By
A	PRODUCTION RELEASE T:Sharp	03 JUL 2014	DED

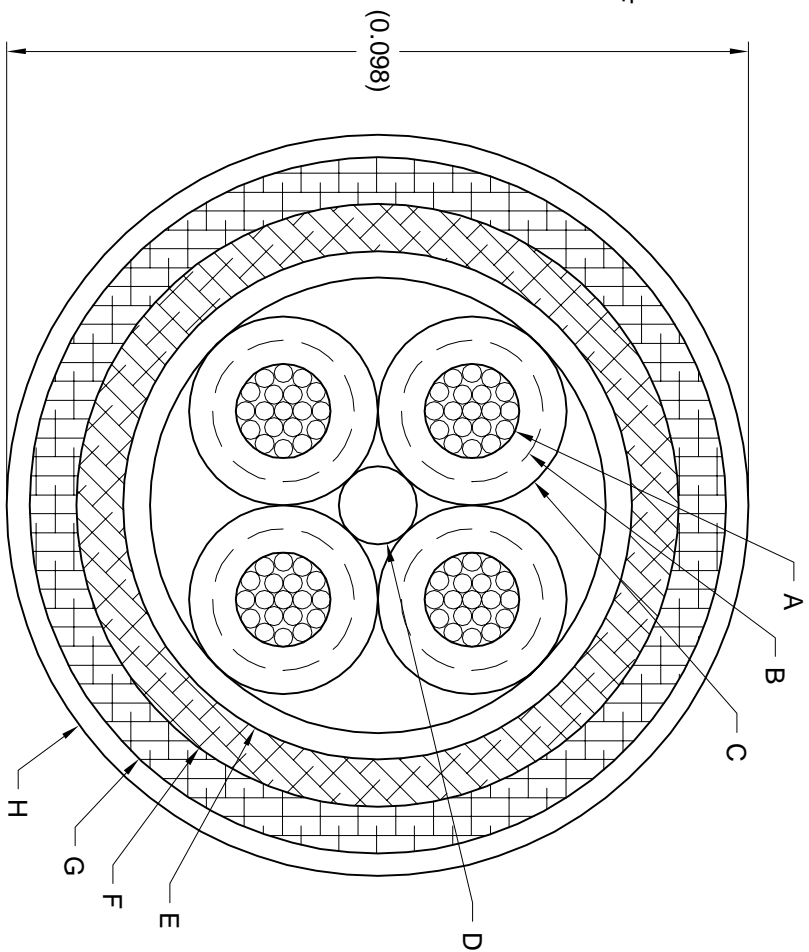
- CONSTRUCTION: QUAD CABLE**
- A. CONDUCTOR: AWG 30(19 / 42) SP HIGH STRENGTH COPPER ALLOY
  - B. PRIMARY INSULATION: ePTFE (AGAINST CONDUCTOR)
  - C. SECONDARY INSULATION: PTFE  
COLORS: RDXGN, BUXOR
  - D. FILLER: FEP, (0.009) DIAMETER
  - E. BINDER: ePTFE
  - F. SHIELD #1: AWG 40(1) SPC BRAID, 92% MINIMUM COVERAGE
  - G. SHIELD #2: AWG 40(1) SPC BRAID, 92% MINIMUM COVERAGE
  - H. JACKET: 0.003 MINIMUM WALL LASER MARKABLE WHITE HSTF  
OVERALL DIAMETER: (0.098)

**ELECTRICAL REQUIREMENTS (MEASURED ON 50 FT SAMPLE):**

- 1. IMPEDANCE:  $110^{+6}_{-4}$   $\Omega$  MEASURED DIFFERENTIALLY
- 2. CAPACITANCE:  $11.0 \pm 1.0$  pF / FT  
(BETWEEN PAIRS, GROUND FLOATING)
- 3. TIME DELAY: (1.28) nSEC / FT
- 4. ATTENUATION: 16.8 dB / 100 FT MAX @ 100 MHZ  
24.0 dB / 100 FT MAX @ 250 MHZ  
30.8 dB / 100 FT MAX @ 500 MHZ  
43.3 dB / 100 FT MAX @ 1 GHZ
- 5. DIELECTRIC WITHSTANDING VOLTAGE:  
1500 V<sub>RMS</sub> (CONDUCTOR / CONDUCTOR)  
1000 V<sub>RMS</sub> (CONDUCTOR / SHIELD)

**OTHER REQUIREMENTS:**

- 1. WEIGHT: 11.0 LBS / 1000 FT MAXIMUM
- 2. TEMPERATURE: -55° C 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



PARENTHESES DENOTE REFERENCE DIMENSIONS		UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES		X	± N/A
DO NOT SCALE DRAWING		XX	± N/A
DEBURR SHARP EDGES		XXX	± N/A
		.XXXX	± N/A
		FRACTIONS	± N/A
		ANGLES	± N/A
		SURFACE TEXTURE	N/A
		BREAKS AND FILETS	N/A
			MAX

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Title	110 OHM QUAD CABLE, AWG 30		
Dwg Size	Sheet	Scale	Associated Documents
A	1 of 1	40:1	EM2 SPEC - 11538
Rev Date	03 JUL 2014	Drawing Number	RCN9057
		Drawn	DED
		Checked	DED
		Rev Level	A

 Third Angle Projection INTERSECT DRAWINGS IN ACCORDANCE WITH ASME Y14.5M-1994 (R1999)
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