

# CONSTRUCTION: QUAD CABLE

## A. SINGLES (4 PLACES):

CONDUCTOR: AWG 24(19 / 36) SILVER PLATED COPPER

INSULATION: PTFE OVER ePTFE

0.055 MAX DIAMETER PER SINGLE

COLORS: RED x GREEN, BLUE x ORANGE

## B. FILLER: FEP, (0.022) DIAMETER

## C. BINDER: ePTFE

## D. SHIELD #1: AWG 40(1) SPC BRAID 92% MINIMUM COVERAGE

## E. SHIELD #2: AWG 38(1) SPC BRAID 92% MINIMUM COVERAGE

## F. JACKET: 0.003 MIN WALL LASER MARKABLE WHITE HSTF

# ELECTRICAL REQUIREMENTS (MEASURED ON 50 FT SAMPLE):

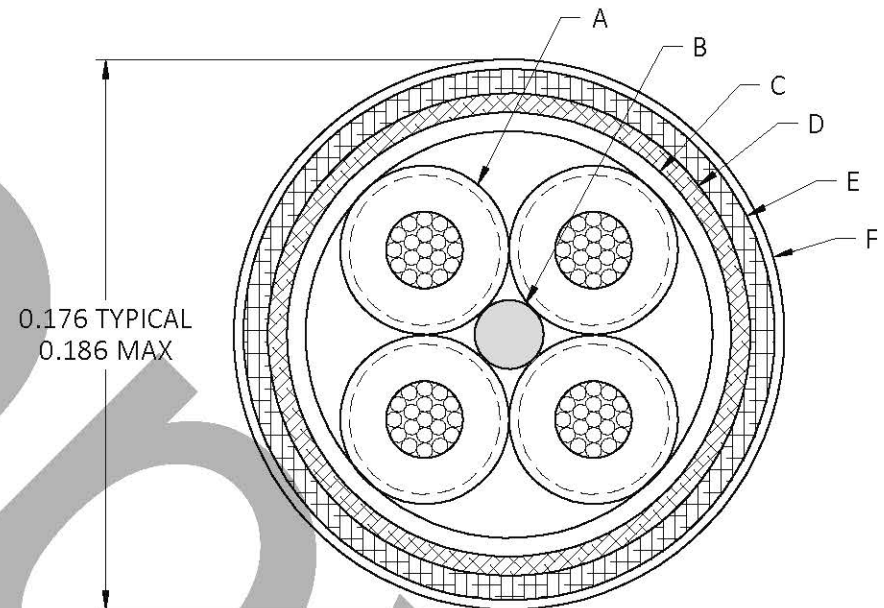
1. IMPEDANCE:  $110^{+6}_{-4} \Omega$  MEASURED DIFFERENTIALLY
2. CAPACITANCE:  $11.0 \pm 1.0$  pF / FT  
BETWEEN PAIRS, GROUND FLOATING
3. TIME DELAY: (1.25) nSEC / FT
4. ATTENUATION: 6.8 dB / 100 FT MAX @ 100 MHz  
10.9 dB / 100 FT MAX @ 250 MHz  
15.5 dB / 100 FT MAX @ 500 MHz  
22.5 dB / 100 FT MAX @ 1 GHz
5. DIELECTRIC WITHSTANDING VOLTAGE:  
1500 V<sub>RMS</sub> (CONDUCTOR / CONDUCTOR)  
1000 V<sub>RMS</sub> (CONDUCTOR / SHIELD)
6. SKEW: 200.0 pSEC / 50 FT MAX WITHIN PAIR

# OTHER REQUIREMENTS:

1. WEIGHT: 31.0 LB / 1000 FT MAX
2. TEMPERATURE: -55° TO +200° C
3. MARKING:  
W L GORE AND ASSOCIATES INC  
PART NUMBER [PART NUMBER]  
CAGE CODE [CAGE CODE]
4. FUNCTIONAL CHARACTERISTICS:  
MEETS OR EXCEEDS  
NEMA-WC27500 SECTION 3.9

# REVISIONS

Rev	Description	Date	Chg'd By
B	Construc. Changes & Note Changes	30 MAR 2006	ECL
C	Impedance & Capacitance Change	05 MAY 2006	ECL
D	Changed Tolerance On Overall Insulation	02 APR 2012	ECL
E	EM2 ECO - 8259 T.Mayer EM2 ECO - 8734 N.Reyes	26 JUN 2018 08 FEB 2019	TKG
F	EM2 ECO - 8873 T.Mayer	22 MAR 2019	TKG



Valid only at time of printing

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DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED	Title AWG 2419 110 $\Omega$ QUAD CABLE			
DO NOT SCALE DRAWING	.X $\pm$ N/A	Dwg Size	Sheet	Scale	Associated Documents
DEBURR SHARP EDGES	.XX $\pm$ N/A	A	1 of 1	16:1	N/A
	.XXX $\pm$ N/A	Rev Date	22 MAR 2019	Drawn	ECL
Third Angle Projection	.XXXX $\pm$ N/A	Drawing Number	RCN8647	Rev Level	F
INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (R1999)	FRACTIONS $\pm$ N/A				
	ANGLES $\pm$ N/A				
	SURFACE TEXTURE N/A				
	BREAKS AND FILLET N/A MAX				