

CONSTRUCTION: QUAD CABLE

A. SINGLES (4 PLACES):

CONDUCTOR: AWG 22(19 / 34) SILVER PLATED COPPER

INSULATION: PTFE OVER ePTFE

0.054 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

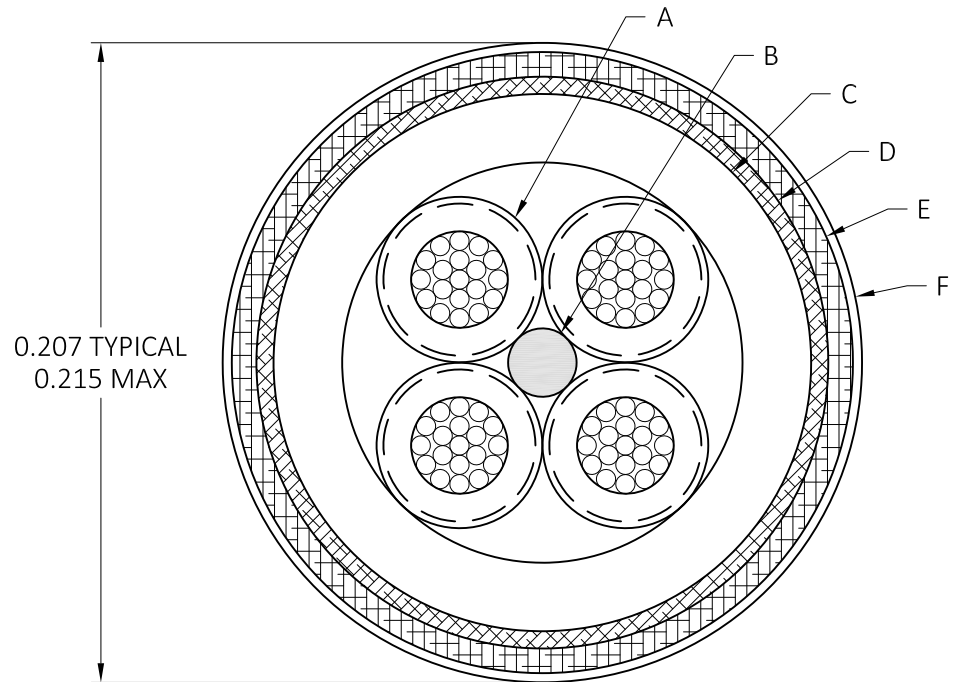
ELECTRICAL REQUIREMENTS (MEASURED ON 50 FT SAMPLE):

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: 5.5 dB / 100 FT MAX @ 100 MHz  
8.8 dB / 100 FT MAX @ 250 MHz  
12.8 dB / 100 FT MAX @ 500 MHz  
18.2 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 pSEC / 50 FT MAX WITHIN PAIR

OTHER REQUIREMENTS:

1. WEIGHT: 41.0 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         | Jacket Color Change, Removed I.D. Tape           | 30 MAR 2006                | ECL      |
| C         | Capacitance Change                               | 05 MAY 2006                | ECL      |
| D         | EM2 ECO - 7297 K.Ritchie                         | 06 DEC 2016                | DED      |
| E         | EM2 ECO - 8259 T.Mayer<br>EM2 ECO - 8734 N.Reyes | 02 JUL 2018<br>08 FEB 2019 | TKG      |
| F         | EM2 ECO - 8873 T.Mayer                           | 22 MAR 2019                | TKG      |
| G         | EM2 ECO - 9401 L.Mastrorilli                     | 19 NOV 2019                | TKG      |



| 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            |
|                                                               | ANGLES ± N/A               |
| Third Angle Projection                                        | 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                     |                |       |                      |       |             |
|---------------------------|----------------|-------|----------------------|-------|-------------|
| AWG 2219 110 Ω QUAD CABLE |                |       |                      |       |             |
| Dwg Size                  | Sheet          | Scale | Associated Documents | Drawn | Rev Level   |
| A                         | 1 of 1         | 16:1  | N/A                  | ECL   | 08 MAR 2006 |
| Rev Date                  | Drawing Number |       | Rev Level            |       |             |
| 19 NOV 2019               | RCN8645        |       | G                    |       |             |