

**CONSTRUCTION: QUAD CABLE**

**A. SINGLES (4 PLACES)**

CONDUCTOR: AWG 28(19 / 40) SILVER PLATED COPPER ALLOY

PRIMARY INSULATION: ePTFE (AGAINST CONDUCTOR)

SECONDARY INSULATION: PTFE

OUTSIDE DIAMETER: (0.029)

COLORS: BLACK x BLUE, WHITE x GREEN

B. FILLER: FEP (0.014) DIAMETER

C. BINDER: ePTFE

D. SHIELD #1: AWG 40(1) SPC BRAID

E. SHIELD #2: AWG 40(1) SPC BRAID

F. JACKET: (0.003) WALL WHITE EF100

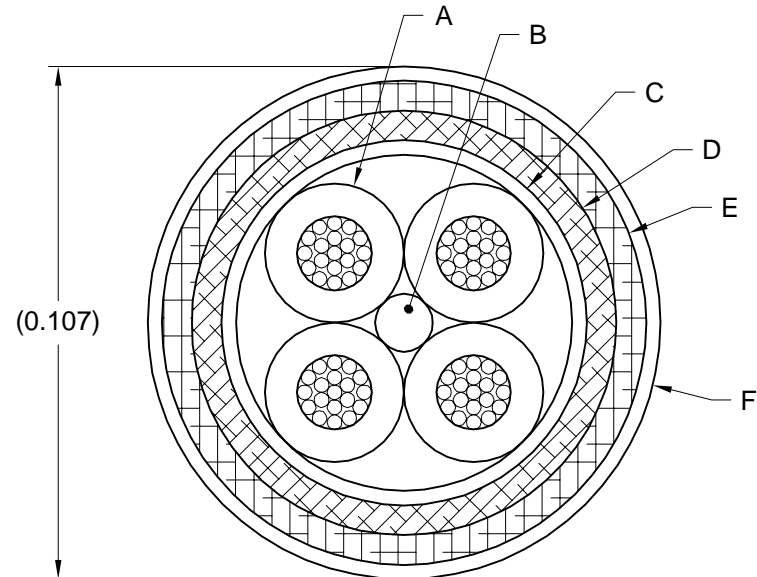
**ELECTRICAL REQUIREMENTS:**

1. IMPEDANCE: 100 ±10 Ω MEASURED DIFFERENTIALLY
2. TIME DELAY: (1.25) nSEC / FT
3. MAX ATTENUATION: 20.5 dB / 100 FEET @ 250 MHz  
28.9 dB / 100 FEET @ 500 MHz  
41.3 dB / 100 FEET @ 1 GHz
4. SKEW: 200.0 pSEC / 50 FT MAX WITHIN PAIR

**OTHER REQUIREMENTS:**

1. TEMPERATURE: -55° C TO +200° C
2. FUNCTIONAL CHARACTERISTICS: MEETS OR EXCEEDS NEMA-WC27500 SECTION 3.9

| REVISIONS |                                  |             |          |
|-----------|----------------------------------|-------------|----------|
| Rev       | Description                      | Date        | Chg'd By |
| A         | PRODUCTION RELEASE               | 13 APR 2010 | ECL      |
| B         | Revised Attenuation Requirements | 26 MAY 2010 | ECL      |
| C         | EM2 ECO - 7343 G.Lawton          | 24 JAN 2017 | TKG      |



|   |   |  |                             |
|---|---|--|-----------------------------|
| PARENTHESES DENOTE<br>REFERENCE DIMENSIONS                    |   | W. L. GORE & ASSOCIATES, INC. (Gore)<br>Performance Solutions Division<br>380 Starr Road, Landenberg, PA 19350 610 / 268-1000<br>© 2010, 2017 W. L. Gore & Associates, Inc.  |                             |
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| DO NOT SCALE DRAWING  | .X ± N/A<br>.XX ± N/A<br>.XXX ± N/A<br>.XXXX ± N/A  | Title<br><b>AWG 2819 100 Ω QUAD CABLE</b>  |                             |
| DEBURR SHARP EDGES  | FRACTIONS ± N/A<br>ANGLES ± N/A                     | Dwg Size<br><b>A</b>   | Sheet<br>1 of 1             |
| Third Angle Projection  | SURFACE TEXTURE N/A ✓<br>BREAKS AND FILLETS N/A MAX | Scale<br>25:1  | Associated Documents<br>N/A |
| INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (R1999) |   | Rev Date<br>24 JAN 2017  | Drawing Number<br>RCN8973   |
|   |   | Drawn<br>ECL   | Date<br>04 MAR 2010         |
|   |   |  | Rev Level<br>C              |