

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

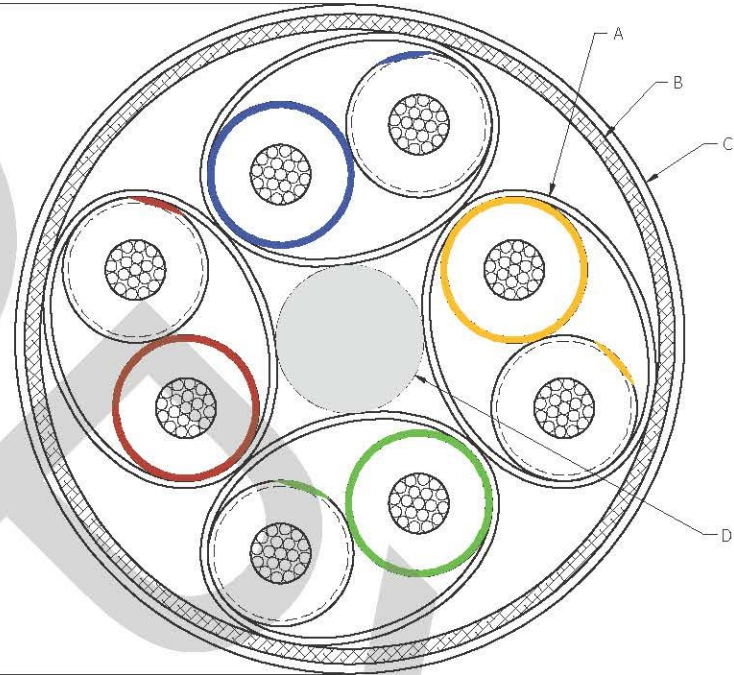
**CONSTRUCTION:**

- A. SHIELDED TWISTED PAIR (4 PLACES)
  - CONDUCTOR: AWG 24(19 / 36) SILVER PLATED ALLOY (2 PLACES)
  - INSULATION: PTFE OVER ePTFE (0.060 [1.52]) DIAMETER (2 PLACES)
  - COLORS: BU x WH/BU, OR x WH/OR, GN x WH/GN, BN x WH/BN
  - PAIR SHIELD: ALUMINIZED POLYIMIDE (ALUMINUM OUT)
- B. OVERALL SHIELD: AWG 40(1) SPC BRAID 92% MINIMUM COVERAGE
- C. OVERALL JACKET:
  - WHITE LASER MARKABLE ENGINEERED FLUOROPOLYMER EF100 (0.004) WALL
- D. FILLER: FEP / ePTFE (0.037 [0.94]) DIAMETER

**ELECTRICAL REQUIREMENTS:**

1. IMPEDANCE:  $100 \pm \frac{10}{5} \Omega$  MEASURED DIFFERENTIALLY
2. TIME DELAY: (1.27) nSEC / FT [(4.17) nSEC / m]
3. CAPACITANCE: (12.5) pF / FT [(41.0) pF / m]
4. ATTENUATION (MAXIMUM) PER 65.6 FT [20 m]:
  - 3.9 dB @ 50 MHz
  - 5.6 dB @ 100 MHz
  - 8.9 dB @ 250 MHz
  - 12.8 dB @ 500 MHz
  - 18.6 dB @ 1000 MHz
  - 23.2 dB @ 1500 MHz
  - 27.2 dB @ 2000 MHz
5. NEXT (MINIMUM):
  - 49.8 dB @ 50 MHz
  - 45.3 dB @ 100 MHz
  - 39.3 dB @ 250 MHz
  - 34.8 dB @ 500 MHz
  - 30.3 dB @ 1000 MHz
  - 27.7 dB @ 1500 MHz
  - 25.8 dB @ 2000 MHz

0.245 [6.22] TYPICAL  
0.260 [6.60] MAX



REVISIONS			
Rev	Description	Date	Chg'd By
01	Initial Release EM2 SPEC - 14283 T.Mayer	17 AUG 2020	DED
02	EM2 ECO - 10348 T.Mayer	17 MAY 2021	DED
A	EM2 ECO - 10487 T.Mayer	28 JUL 2021	TKG
B	EM2 ECO - 10541 T.Mayer	04 OCT 2021	TKG

**NOTES:**

1. BRACKETED [ ] DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
2. MARKING PER NEMA-WC27500 SECTION 3.10.2:  
PART NUMBER RCN9235-24 CAGE CODE [CAGE CODE]
3. OPERATING TEMPERATURE: -85° F TO +392° F [-65° C TO +200° C]
4. WEIGHT: NOMINAL: 40.0 LB / 1000 FT [59.5 kg / km]  
MAXIMUM: 45.0 LB / 1000 FT [67.0 kg / km]
5. ELECTRICAL CHARACTERISTICS TO BE TESTED AT INDICATED LENGTH
6. MINIMUM SHIP LENGTH: 65.6 FT [20 m]
7. THIS CABLE MEETS TIA568.2D, CATEGORY 8 ELECTRICAL HORIZONTAL REQUIREMENTS FROM 50 MHz - 2000 MHz UP TO 65.6 FT [20 m]
8. REACH AND RoHS COMPLIANT

Valid only at time of printing

PARENTHESES DENOTE REFERENCE DIMENSIONS		W. L. GORE & ASSOCIATES, INC. (Gore) Performance Solutions Division 101 Lewisville Road, Elkton, MD 21921 410 / 392-3300 © 2020-2021 W. L. Gore & Associates, Inc.	
DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING DEBURR SHARP EDGES This is a Single Projection INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-2018 (R1999)		UNLESS OTHERWISE SPECIFIED: .X ± N/A .XX ± N/A .XXX ± N/A .XXXX ± N/A FRACTIONS ± N/A ANGLES ± N/A SURFACE TEXTURE N/A BREAK AND FILLETS N/A MAX	
Title: AWG 2419 CATEGORY 8 HIGH SPEED DATA CABLE Performance Solutions Division			
Dwg Size	Sheet	Scale	Drawn
B	1 of 1	20:1	DED
Rev Date	Drawing Number		Rev Level
04 OCT 2021	RCN9235-24		B

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