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REVISIONS			
Rev	Description	Date	Chg'd By
A	Production Release EM2 SPEC - 9255	01 SEP 2010	ECL
B	Updated Attenuation Spec	17 JAN 2011	ECL
C	Updated Construction and Electrical Req Per G.Lawton	21 MAY 2015	GBA
D	Updated Construction and Electrical Req Per G.Lawton	31 JUL 2015	DED
E	EM2 ECO - 7166 M.Hanna	16 MAY 2016	DED
F	EM2 ECO - 7384 M. Frantz	02 MAR 2017	TKG
G	EM2 ECO - 8250 T.Sharp	21 JUN 2018	TKG
H	EM2 ECO - 10152 A.Battipaglia	21 JAN 2021	DED
J	EM2 ECO - 10626 L.Mastrofrilli	19 NOV 2021	DED
K	EM2 ECO - 11069 M.Dubbs	21 SEP 2022	DED
L	EM2 ECO - 11202 M.Dubbs	22 SEP 2023	SNM

**CONSTRUCTION:**

- A. SHIELDED TWISTED PAIRS (4 PLACES)
  - CONDUCTOR: AWG 24(19 / 36) SPAL (2 PLACES)
  - INSULATION: ePTFE OVER PTFE (2 PLACES)
  - OUTSIDE DIAMETER: PTFE 0.040 MAX
  - COLORS: WH/BU x BU, WH/OR x OR, WH/GN x GN, WH/BN x BN
  - PAIR OVERALL SHIELD: ALUMINIZED KAPTON (ALUMINUM OUT)
- B. OVERALL SHIELD: AWG 40(1) SPC BRAID 92% MINIMUM COVERAGE
- C. OVERALL JACKET: (0.004) WALL WHITE LASER MARKABLE EF100
- D. FILLER: FEP / ePTFE

**ELECTRICAL REQUIREMENTS:**

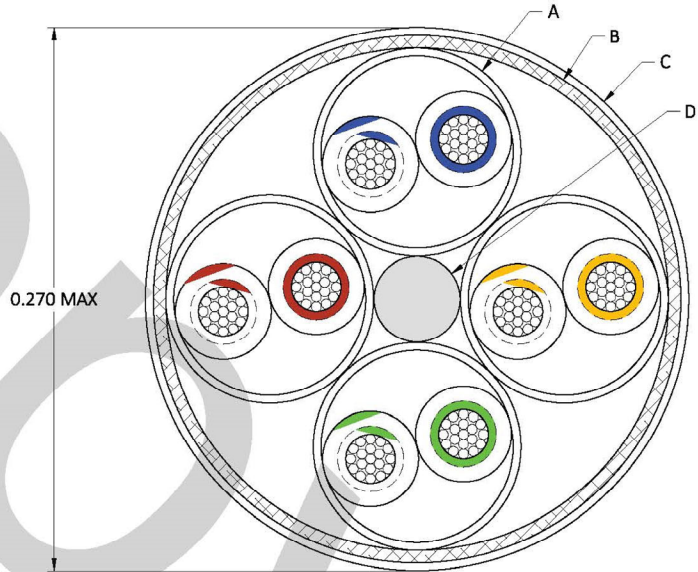
- 1. IMPEDANCE:  $100 \pm 10 \Omega$
- 2. OPERATING VOLTAGE: 150 V<sub>RMS</sub>
- 3. MAXIMUM ATTENUATION:
  - 5.9 dB / 80 METERS @ 10 MHz
  - 19.1 dB / 80 METERS @ 100 MHz
  - 27.6 dB / 80 METERS @ 200 MHz
  - 31.1 dB / 80 METERS @ 250 MHz
  - 45.3 dB / 80 METERS @ 500 MHz

- NEXT (MINIMUM):
- 74.3 dB @ 1 MHz
  - 59.2 dB @ 10 MHz
  - 52.3 dB @ 100 MHz
  - 47.9 dB @ 250 MHz
  - 42.2 dB @ 500 MHz

- 4. TIME DELAY: (1.24) nSEC / FT
- 5. CAPACITANCE: (12.5) pf / FT

**NOTES:**

- 1. OPERATING TEMPERATURE: -65° C TO +200° C
- 2. WEIGHT: 65.5 kg / km [ 44.0 LB / 1000 FT ] NOMINAL  
67.0 kg / km [ 45.0 LB / 1000 FT ] MAXIMUM
- 3. LASER MARK GORE PN, CAGE CODE, AND "W. L. GORE & ASSOCIATES"
- 4. OUTSIDE DIAMETER MEASUREMENT IS THE AVERAGE OF X AND Y AXES.
- 5. THIS CABLE MEETS TIA568.2-D CATEGORY 6A REQUIREMENT UP TO 80 METERS
- 6. RoHS COMPLIANT TO EU DIRECTIVE 2011/65/EU (RoHS RECAST), INCLUDING COMMISSION DELEGATED DIRECTIVE 2015/863



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DENUR SHARP EDGES	THIRD ANGLE PROJECTION	SURFACE TEXTURE N/A / BREAKS AND FILLETS N/A MAX	<b>AWG 2419 AEROSPACE CAT6a CABLE FOR I.D.C.</b>		
Third Angle Projection	Dwg Size B	Sheet 1 of 1	Scale 16:1	Associated Documents N/A	Drawn ECL 27 JAN 2010
INTERNET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (PL1999)	Rev Date 22 SEP 2023	Drawing Number RCN8966-24	Rev Level L		

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