

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_{RMS}

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

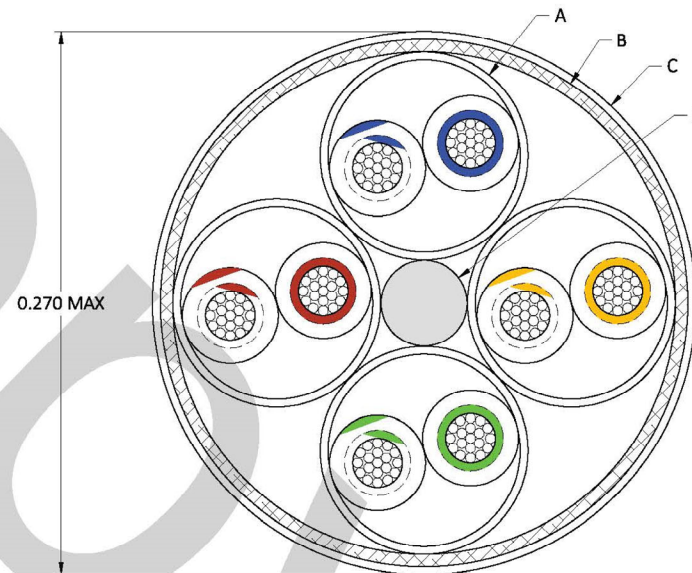
5. CAPACITANCE: (12.5) pf / FT

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

Valid only at time of printing

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.Mastrolilli	19 NOV 2021	DED
K	EM2 ECO - 11069 M.Dubbs	21 SEP 2022	DED
L	EM2 ECO - 11202 M.Dubbs	22 SEP 2023	SNM



PARENTHESES DENOTE REFERENCE DIMENSIONS			
DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED	
DO NOT SCALE DRAWING	.X ± N/A	.XX ± N/A	.XXX ± N/A
DEBURR SHARP EDGES	.XXX ± N/A	.XXX ± N/A	.XXX ± N/A
Third Angle Projection	FRACTIONS ANGLES ± N/A	FRACTIONS ANGLES ± N/A	FRACTIONS ANGLES ± N/A
INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (PLS99)	SURFACE TEXTURE N/A	BREAKS AND FILLETS N/A	MAX
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Title: AWG 2419 AEROSPACE CAT6a CABLE FOR I.D.C.			
Dwg Size	Sheet	Scale	Associated Documents
B	1 of 1	16:1	N/A
Rev Date	22 SEP 2023	Drawing Number:	RCN8966-24
		Rev Level	L