

REVISIONS			
Rev	Description	Date	Chg'd By
C	EM2 ECO - 7031 T.Sharp	20 DEC 2015	DED
D	EM2 ECO - 7268 G.Lawton	26 SEP 2016	DED
E	EM2 ECO - 7304 G.Lawton	04 NOV 2016	DED
F	EM2 ECO - 7351 G.Lawton	24 JAN 2017	TKG
G	EM2 ECO - 8416 L.Dalitzman	30 AUG 2018	TKG
H	EM2 ECO - 8872 T.Mayer	22 MAR 2019	TKG
J	EM2 ECO - 8934 R.Porter	12 APR 2019	TKG

CONSTRUCTION: QUAD CABLE

- A. CONDUCTOR: AWG 24(19 / 36) SPAL
- B. PRIMARY INSULATION - ePTFE (AGAINST CONDUCTOR)
- C. SECONDARY INSULATION - PTFE - O.D. 0.055 MAX
COLORS: ARINC STANDARD RED x BLU, YEL x GRN PAIRS
- D. FILLER: FEP (0.018) DIAMETER
- E. BINDER: ePTFE
- F. SHIELD #1: AWG 40(1) SPC BRAID, 85% MIN COVERAGE
- G. SHIELD #2: AWG 40(1) SPC BRAID, 85% MIN COVERAGE
- H. JACKET: 0.003 MINIMUM WALL WHITE LASER MARKABLE ENGINEERED FLUOROPOLYMER

ELECTRICAL REQUIREMENTS (MEASURED ON 50 FT SAMPLE):

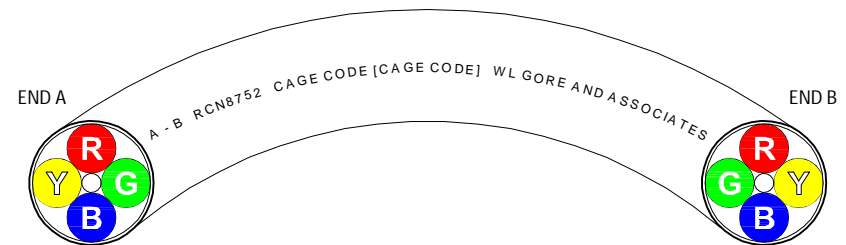
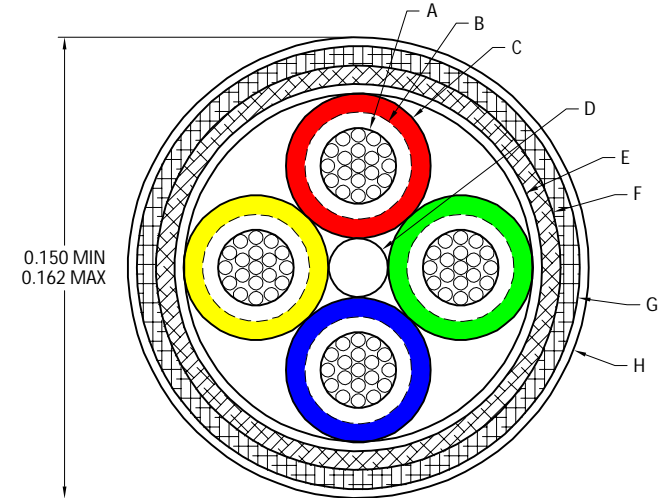
1. IMPEDANCE: $100 \pm 10 \Omega$ MEASURED DIFFERENTIALLY
2. VELOCITY OF PROPAGATION: 80% OF AIR MINIMUM
3. DIELECTRIC WITHSTANDING VOLTAGE:
 - 3.0 kV_{dc} (CONDUCTOR / CONDUCTOR)
 - 2.0 kV_{dc} (CONDUCTOR / SHIELD)
4. SKEW: 200.0 pSEC / 50 FT MAX WITHIN PAIR
5. RETURN LOSS LIMITS (MEASURED ON 100 METER SAMPLE):
 - 24.5 dB @ 8 MHz
 - 25.0 dB @ 10 MHz
 - 25.0 dB @ 16 MHz
 - 25.0 dB @ 20 MHz
 - 24.2 dB @ 25 MHz
 - 23.2 dB @ 31.25 MHz
 - 20.7 dB @ 62.5 MHz
 - 19.0 dB @ 100 MHz
6. NEXT (MAXIMUM) (MEASURED ON 100 METER SAMPLE):
 - 51.8 dB @ 8 MHz
 - 50.3 dB @ 10 MHz
 - 47.2 dB @ 16 MHz
 - 45.8 dB @ 20 MHz
 - 44.3 dB @ 25 MHz
 - 42.9 dB @ 31.25 MHz
 - 38.5 dB @ 62.5 MHz
 - 35.3 dB @ 100 MHz
7. INSERTION LOSS VALUES (MAXIMUM) (MEASURED ON 100 METER SAMPLE):
 - 7.9 dB @ 8 MHz
 - 8.9 dB @ 10 MHz
 - 11.2 dB @ 16 MHz
 - 12.7 dB @ 20 MHz
 - 14.2 dB @ 25 MHz
 - 16.0 dB @ 31.25 MHz
 - 23.3 dB @ 62.5 MHz
 - 30.1 dB @ 100 MHz
8. INSERTION LOSS MEASURED PER ASTM D 4566 (MEASURED ON 50 FT SAMPLE) SHALL MEET THE INDICATED VALUES AT THE FOLLOWING FREQUENCIES (MAXIMUM):
 - 12.65 dB / 50 FT @ 800 MHz
 - 18.05 dB / 50 FT @ 1000 MHz

OTHER REQUIREMENTS:

1. WEIGHT: 30.0 LBS / 1000 FT MAX
2. TEMPERATURE: -55° C TO +200° C
3. FUNCTIONAL CHARACTERISTICS: MEETS OR EXCEEDS NEMA-WC27500 SECTION 3.9
4. TESTS LENGTHS ALL BE INCLUDED IN ALL SHIPMENTS

NOTES:

1. JACKET PRINTING: RCN8752, CAGE CODE [CAGE CODE], AND "W.L. GORE & ASSOCIATES"



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INTERSECT DRAWING IN ACCORDANCE WITH ASME Y14.5M-1994 (2019)				Title: 100 Ω MARKABLE QUAD CABLE, AWG 2419	
SURFACE TEXTURE		N/A / V		Dwg Size: Sheet 1 of 1 Scale: 25:1 Associated Documents: ECL 07 MAY 2007	
BREAKS AND FILLETS		N/A MAX		Rev Date: 12 APR 2019 Drawing Number: RCN8752 Rev Level: J	