

# CONSTRUCTION:

## A. SHIELDED TWISTED PAIR (2 PLACES)

CONDUCTOR: AWG 26(19 / 38) SPAL (2 PLACES)

INSULATION: INVERTED DIELECTRIC, ePTFE OVER PTFE (2 PLACES)

0.036 MAX DIAMETER OVER PTFE

COLORS PER TABLE:

|             | COLORS              |                      |
|-------------|---------------------|----------------------|
|             | PAIR #1             | PAIR #2              |
| OUTER LAYER | WHITE x WHITE/GREEN | WHITE x WHITE/ORANGE |
| INNER LAYER | GREEN x WHITE       | ORANGE x WHITE       |

PAIR SHIELD: ALUMINIZED POLYIMIDE (ALUMINUM OUT)

B. OVERALL SHIELD: AWG 40(1) SPC BRAID 92% MINIMUM COVERAGE

C. OVERALL JACKET: (0.004) WALL WHITE LASER MARKABLE EF100

# ELECTRICAL REQUIREMENTS:

1. IMPEDANCE:  $100 \pm \frac{10}{5} \Omega$  MEASURED DIFFERENTIALLY

2. TIME DELAY: (1.24) nSEC / FT

3. CAPACITANCE: (12.5) pF / FT

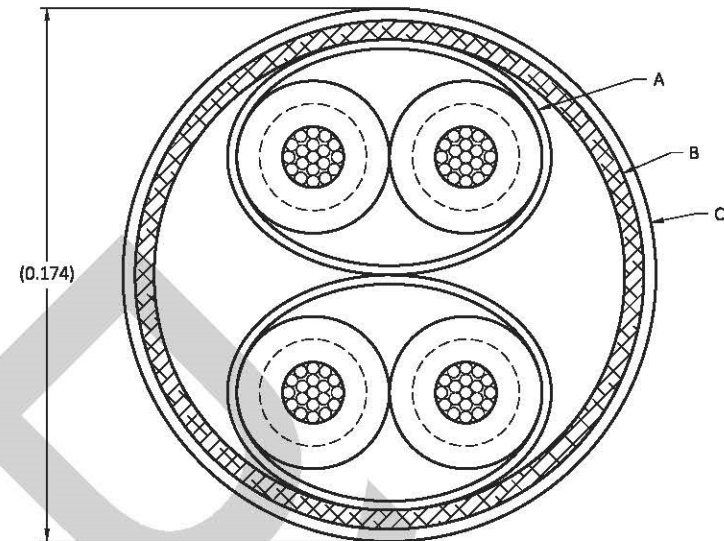
4. MAXIMUM ATTENUATION: 5.9 dB / 65 METERS @ 10 MHz  
19.1 dB / 65 METERS @ 100 MHz  
27.6 dB / 65 METERS @ 200 MHz  
31.1 dB / 65 METERS @ 250 MHz  
45.3 dB / 65 METERS @ 500 MHz

5. NEXT (MAXIMUM): 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

# NOTES:

1. LASER MARK CABLE WITH PART NUMBER RCN9133-26 AND CAGE CODE
2. OPERATING TEMPERATURE: -65° C TO +200° C
3. WEIGHT: (21.0) LBS / 1000 FT
4. ELECTRICAL CHARACTERISTICS TO BE TESTED AT INDICATED LENGTH
5. MINIMUM SHIP LENGTH IS 15 METERS
6. THIS CABLE MEETS TIA568C.2 CATEGORY 6A REQUIREMENT UP TO 65 METERS

| REVISIONS |                                           |             |          |
|-----------|-------------------------------------------|-------------|----------|
| Rev       | Description                               | Date        | Chg'd By |
| A         | Initial Release EM2 SPEC - 12957 G.Lawton | 23 MAR 2017 | DED      |
| B         | EM2 ECD - 9654 G.Lawton                   | 13 APR 2020 | DED      |



Valid only at time of printing

| PARENTHESES DENOTE<br>REFERENCE DIMENSIONS                          |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
|---------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
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| DOUBLE SHARP EDGES                                                  | JXX ± N/A                    | Title<br>AWG 2619 2 PAIR Cat6A ETHERNET AEROSPACE CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| Third Angle Projection                                              | JXXX ± N/A                   | Drawn<br>B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Drawn<br>DED                |
| INTERVIEW DRAWING IN<br>ACCORDANCE WITH<br>ASME Y14.5M-1994 (P1009) | FRACTIONS<br>ANGLES<br>± N/A | Scale<br>1 of 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Scale<br>25:1               |
|                                                                     | SURFACE TEXTURE<br>N/A       | New Date<br>13 APR 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Associated Documents<br>N/A |
|                                                                     | BREAKS AND<br>FILES N/A MAX  | Drawing Number<br>RCN9133 - 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rev Level<br>B              |