### CONSTRUCTION DETAILS

- **CONDUCTORS**
  - AWG 24, 19 Strands of AWG 36, Silver-Coated High Strength Copper Alloy

- **DIELECTRICS**
  - Rayfoam® H
  - Colors - White/ Light Blue

- **FILLERS**
  - Radiation-Crosslinked Modified ETFE

- **SHIELD**
  - AWG 38, Tin-Coated Copper

- **JACKET**
  - Modified FEP

Outer jacket color will be transparent white designated by a "9X" appended to the part number, e.g. 0024A0024-9X unless otherwise specified. Designate outer jacket color with a dash number in accordance with MIL-STD-681

### ELECTRICAL CHARACTERISTICS

- **CHARACTERISTIC IMPEDANCE**
  - 100 ± 7 ohms, Method C at 1 MHz

- **CAPACITANCE - MUTUAL**
  - 13.5 pF/ft. (nominal)

- **VELOCITY OF PROPAGATION**
  - 76% (nominal)

- **CAPACITANCE UNBALANCE**
  - 3% (nominal)

### ADDITIONAL REQUIREMENTS

#### ELECTRICAL

- **CONDUCTOR RESISTANCE**
  - 26.5 ohms/1000 ft. (nominal)

- **INSULATION RESISTANCE**
  - 10,000 megohms (minimum) for 1000 ft.

- **JACKET FLAWS**
  - SPARK TEST
    - 1.0 kV, (rms), 60 Hz

- **IMPULSE TEST**
  - 6.0 kV, (peak)

- **VOLTAGE WITHSTAND (DIELECTRIC)**
  - 1000 volts (rms) (minimum)

- **LOOP RESISTANCE**
  - 60 ohms/1000 ft (nominal)

#### ENVIRONMENTAL

- **AGING STABILITY**
  - 135°/55°C/4.00 inch mandrel

- **FLAMMABILITY**
  - Method B

- **HEAT SHOCK**
  - 225°C

- **LOW TEMPERATURE-COLD BEND**
  - -55°C/4.00 inch mandrel

- **VOLTAGE WITHSTAND (POST ENVIRONMENTAL)**
  - 1000 volts (rms), for 1 minute

#### PHYSICAL

- **INSULATION (DIELECTRIC)**
  - (Prior to cabling)

- **ELONGATION**
  - 50% (minimum)

- **TENSILE STRENGTH**
  - 600 lbf/in² (minimum)

- **JACKET**

- **ELONGATION**
  - 200% (minimum)

- **TENSILE STRENGTH**
  - 2000 lbf/in² (minimum)

- **JACKET THICKNESS**
  - 0.012 inch (nominal)

- **SHIELD COVERAGE**
  - 90% (minimum)

#### WEIGHT

- 18.1 lbs/1000 ft (nominal)