## CONSTRUCTION DETAILS

- **CONDUCTOR**: AWG 24, 19 Strands of AWG 36, Silver-Coated High Strength Copper Alloy
- **SHIELD**: AWG 38, Silver-Coated Copper
- **FILLERS**: Radiation-Crosslinked Modified ETFE
- **JACKET**: Radiation-Crosslinked, Modified PVF₂

## ELECTRICAL CHARACTERISTICS

- **CHARACTERISTIC IMPEDANCE**: 100 ± 7 ohms, Method C at 1 MHz
- **CAPACITANCE - MUTUAL**: 14.5 pF/ft. (nominal) at 1 MHz
- **VELOCITY OF PROPAGATION**: 76% (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), Impulse Test 6.0 kV (peak)
- **VOLTAGE WITHSTAND (DIELECTRIC)**: 1000 volts (rms) (minimum)

### ENVIRONMENTAL

- **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: 1000 lbf/in² (minimum)
- **JACKET**
  - Elongation: 200% (minimum)
  - Tensile Strength: 4000 lbf/in² (minimum)
  - Thickness: .012 inch (nominal)
  - Shield Coverage: 90% (minimum)
- **WEIGHT**: 15.3 lbs/1000 ft. (nominal)

### OUTER SPACE REQUIREMENTS

- **RADIATION RESISTANCE**: 500 megorads / 4.25 inch mandrel
- **VACUUM STABILITY**: Total Mass Loss (TML): 1.0% (maximum)
- **VOLATILE CONDENSABLE MATERIAL (VCM)**: 0.1% (maximum)

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Outer jacket color will be white (designated by a "9" appended to the part number, e.g. 0024K0214-9) unless otherwise specified. Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.
Mouser Electronics

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TE Connectivity:  
0024K0214-9  0024K0214-9CS3343