CONSTRUCTION DETAILS

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE DESIGNATED.

CONDUCTOR
AWG 24, 19 Strands of AWG 36, Tin-Coated Copper

DIELECTRIC
Rayfoam® H
Colors - White/Light Blue

FILLERS
Radiation-Crosslinked Modified ETFE

SHIELD
AWG 38, Tin-Coated Copper

JACKET
Modified FEP

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC IMPEDANCE
100 ± 8 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
24.8 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°C/-55°C/3.75 inch mandrel

FLAMMABILITY
Method B

HEAT SHOCK
225°C

LOW TEMPERATURE-
COLD BEND
-55°C/3.75 inch mandrel

PHYSICAL

INSULATION (DIELECTRIC)
(Prior to cabling)
50% (minimum)

ELONGATION
TENSILE STRENGTH
600 lbf/in² (minimum)

JACKET
ELONGATION
TENSILE STRENGTH
200% (minimum)

2000 lbf/in² (minimum)

JACKET THICKNESS
.010 inch (nominal)

SHIELD COVERAGE
90% (minimum)

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

WEIGHT
17.3 lbs/1000 ft. (nominal)

Outer jacket color will be transparent white (designated by a "-9X" appended to the part number, e.g. 0024A0021-9X) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681.
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

0024A0021-9X-L013  0024A0021-9X