

Appendix F

Network Cable Specifications

Belden 9259 RG-59/U Type Coaxial Cable

Nominal Impedance

- 75 ohms

Nominal Velocity of Propagation

- 78%

Nominal Capacitance

- 17.3 picofarad/foot

Nominal Attenuation at 1 MHz

- 0.3 decibels/100 feet

Outer Jacket

- PVC

Nominal Outer Diameter

- 0.242 inches

Shield

- Coverage and material: 95% bare copper
- Nominal D-C resistance: 2.6 ohms/1000 feet

Insulation

- Cellular polyethylene

Center Conductor

- Material: stranded bare copper
- Nominal D-C Resistance: 15 ohms/1000 feet

Suggested Operating Temperature Range

- -40°C , $+80^{\circ}\text{C}$

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(Continued)

Minimum Bending Radius

- 2.5 inches

Maximum Standard Length

- 1000 feet

Belden 225362 62.5 Micron Fiber-Optic Cable

Cable Size

- 62.5 micron core, 125 micron cladding, 900 micron buffer

Recommended Manufacturer

- Belden

Belden Part Number

- 225362 - breakout cable

Number of Fibers per Cable

- 2

Outside Diameter

- 6 mm (.236")

Jacket Material

- PVC

Operating Temperature

- -20° to 80°C
-36° to 176°F

Maximum Pulling Tension

- 68 Kg (150 lbs)

Minimum Bend Radius

- 70 mm (3")

Appendix F

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Maximum Attenuation

- 3.5 dB per km

Nominal Operating Frequency

- 820 nanometers

Fiber-Optic Connector

Recommended Fiber-Optic Connector

- Hot Melt Connector, ST-compatible

Manufacturer

- 3M

3M Part Number

- 6100

Ferrule

- Ceramic

Maximum Attenuation

- -0.6 dB per mated-pair

Recommended Connector Termination Kit

- Hot Melt Termination Kit, ST-compatible

Manufacturer

- 3M

3M Part Number

- 6150A

Recommended Cable Assembly Test Set

- Fiber-Optic Test Set, ST-Compatible

Manufacturer

- 3M/Photodyne

3M/Photodyne Part Number

- 118