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IEEE 1394 Firewire Cable

P/N 922406



6 Conductors

2 Shielded Twisted Signal Pairs:

Conductors: 24 AWG stranded silver plated copper

Insulation: High temperature fluoropolymer

Shield 1: Aluminum/Polyester tape

Shield 2: 38 AWG tin plated copper braid

Color Code:

Pair 1: Green, Red

Pair 2: Blue, Orange

2 Single Power Wires:

Conductors: 18 AWG stranded silver plated copper

Insulation: High temperature fluoropolymer

Color Code: White, Black

Overall Cable:

Filler: Fiberglass, for roundness

Binder: Polyester tape

Shield 1: Aluminum/Polyester tape

Shield 2: 38 AWG tin plated copper braid

Jacket: White high temperature fluoropolymer
(laser markable)

Physical Characteristics

Outer Diameter: 0.345 inches nominal

Bend Radius: 1.72 inches nominal

Weight: 8.6 lbs/100 feet nominal

Temperature Range: -55° to +150° C

Skydrol Resistant: Yes

Electrical Characteristics (Signal)

Impedance: 110 Ohms nominal

Capacitance (Signal): 12 pF/ft nominal

Time Delay: 1.54 ns/ft maximum

Skew: 400 pS/6 m maximum leg to leg

Crosstalk: 26 dB minimum (1-500 MHz)

Between signal pairs and signal to power pairs

Attenuation (Signal): 100 MHz 2.3 dB/100 ft
(nominal)

200 MHz 3.2 dB/100 ft

400 MHz 5.8 dB/100 ft

800 MHz 8.2 dB/100 ft

Electrical Characteristics (Power)

Impedance: 65 Ohms maximum

DC Resistance: 0.12 Ohms/6 m maximum

Applications

IEEE 1394 Firewire extended range

Environmental:

- ECS data bus cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

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