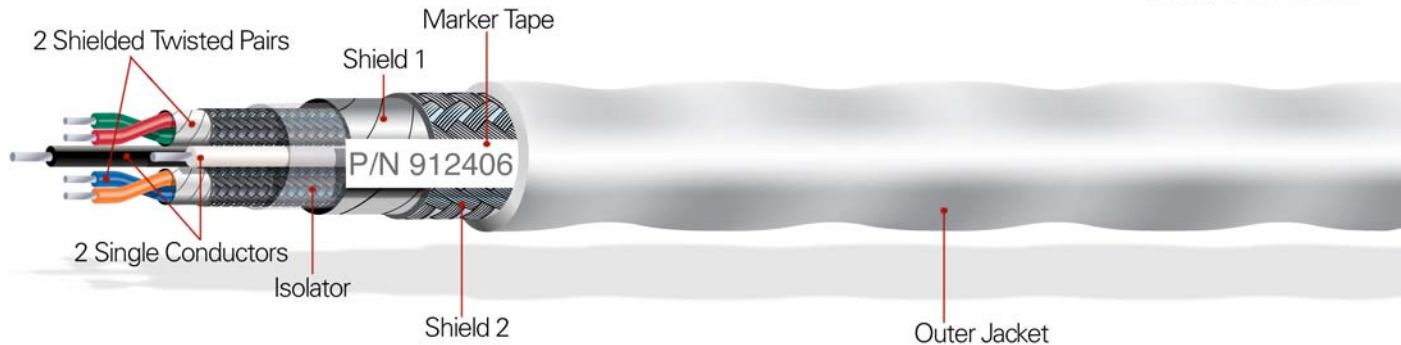




Providing complete avionics installation provisions  
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# IEEE 1394 Firewire Cable

**P/N 912406**



## **6 Conductors**

### **2 Shielded Twisted Signal Pairs:**

**Conductors:** 24 AWG 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:** 22 AWG silver plated copper

**Insulation:** High temperature fluoropolymer

**Color Code:** White, Black

## **Overall Cable:**

**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:** 0.338 inches nominal

**Bend Radius:** 1.7 inches nominal

**Weight:** 6.1 lbs/100 feet nominal

**Temperature Range:** -55° to +150° C

**Skydrol Resistant:** Yes

## **Electrical Characteristics (Signal)**

**Impedance:** 110 Ohms nominal

**Capacitance:** 12 pF/ft nominal

**Time Delay:** 1.54 ns/ft maximum

**Skew:** 400 pS/6 m maximum leg to leg

**Crosstalk:** 40 dB minimum (1-400 MHz)

Between signal pairs and signal to power pairs

**Attenuation:** 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:** 0.3 Ohms/6 m maximum

## **Applications**

IEEE 1394 Firewire

## **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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