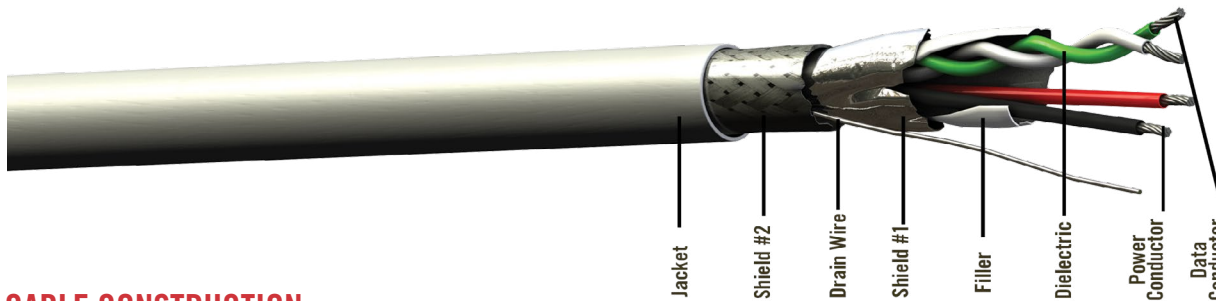


# USB2422



## CABLE CONSTRUCTION

**Data Conductor:** Silver-Plated Copper  
**Power Conductor:** Silver-Plated Copper  
**Dielectric:** FEP  
**Drain Wire:** Silver-Plated Copper

**Filler:** PTFE Tape  
**Shield #1:** Aluminum/Polyester Foil  
**Shield #2:** Tin-Plated Copper  
**Jacket:** ETFE, White (Laser Markable)

## COLOR CODES

**Data Pair:** White, Green

**Power Pair:** Red, Black

The USB2422 is a USB 2.0 cable specially designed for airborne application. The USB2422's twisted-pair construction of silver-plated copper conductors is surrounded by FEP insulation. The 100% foil and 80% braided shielding assure uniform conductivity with excellent solderability, further protecting against EMI. An ETFE laser markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. USB2422 meets or exceeds all EIA-364-XX specifications.

## PHYSICAL DATA

**Conductors:**  
 Data Pair: 24 AWG Stranded SPC  
 Power Wires: 22 AWG Stranded SPC  
 Drain Wire: 28 AWG Stranded SPC  
**Shield Coverage:** 100% (Foil), 80% (Braid)  
**Temperature Range:** -55 to +150°C  
**Outer Diameter:** in (mm) 0.18 (4.57)  
**Minimum Bend Radius:** in (mm) 1.0 (25.4)  
**Weight:** lbs/100 ft (kg/100 m) 2.36 (3.51)

## ELECTRICAL DATA

**Impedance:** 90 ohms  
**Capacitance:** pF/ft (m)  
 Conductor to Conductor: 13.0 (42.7)  
 Conductor to Shield: 21.0 (68.9)  
**Time Delay:** nS/ft (nS/m) 1.39 (4.56)  
**DC Resistance:** (ohms/1000 ft.) (m)  
 Power Pair: 15.2 (49.9)

## ENVIRONMENTAL DATA

**Skydrol Resistant:** SAE AS4373E, Method 601  
**RoHS Compliant:** RoHS Directive 2002/95/EC  
**Flame / Smoke Requirements:** FAR Part 25.869 (a) App. F, Part 1, (a)(3)  
**Berry Specialty Metals Compliance:** Complies with DFARS 252.225-7014, Alt 1

## ATTENUATION DATA

| Frequency | Nom/Max dB/ft | Nom/Max (dB/m) |
|-----------|---------------|----------------|
| @96 MHz   | 0.07/0.07     | (0.21/0.24)    |
| @200 MHz  | 0.10/0.11     | (0.31/0.34)    |
| @400 MHz  | 0.14/0.16     | (0.47/0.52)    |

*All values nominal, unless otherwise noted*

USB2422  
USB 2.0 CABLE

