

GF90-24USB2

24 AWG, AEROSPACE GRADE USB 2.0



USB 2.0 DATA CABLE

The GF90-24USB2 is designed to meet the requirements of USB 2.0 applications up to 18ft. With a 100% foil and an 80% round wire braided shield, this design provides ample protection against EMI in the vast majority of applications. The GF90-24USB2 is an identical alternative for PIC's commonly used USB2422 cable. Contact GIGAFLIGHT if you're interested in having us build your USB cable assemblies.

If your project requires a specific jacket color that is called out in the table below, please contact us for availability.

CABLE CONSTRUCTION

Data Pair		
1	Conductors	24 AWG Stranded Silver-plated HSCA
2	Insulation	Foamed, High-temp Fluoropolymer
	Color Code	Green, White
Power Wires		
3	Conductors	22 AWG Stranded, Silver-plated Copper
4	Insulation	Solid, High-temp Fluoropolymer
	Color Code	Red, Black
5	Binder	PTFE Tape
6	Inner Shield	Composite Foil
7	Drain Wire	28 AWG Stranded, Tin-plated Copper
8	Outer Shield	38 AWG Tin-plated Copper Braid
9	Jacket	White, Laser-markable Tefzel

JACKET COLORS & APPLICATIONS

GF90-24USB2	White	Laser Markable
GF90-24USB2-3	Orange	Flight Test Data
GF90-24USB2-5	Olive Drab	Covert Subdued

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.18" (4.57 mm)
Weight	23 lbs/1000 ft (34.23 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.0" (25.4 mm)

ELECTRICAL PROPERTIES

Data Pair		
Impedance	90Ω	
Capacitance (cond to cond)	13 pF/ft (42.7 pF/m)	
Capacitance (cond to shield)	21 pF/ft (68.9 pF/m)	
Time Delay	1.39 ns/ft (4.56 ns/m)	
DC Resistance (Power Wires)	15.2Ω/1000 ft (49.9Ω/1000 m)	
Attenuation (+25°C)	Frequency	dB/1 ft (1 m)
	96 MHz	0.07 (0.23)
	200 MHz	0.10 (0.32)
400 MHz	0.14 (0.48)	

CONNECTORS

STYLE	P/N
USB 2.0 A Plug w/ LSZH Hood	GFSC-2010
USB 2.0 B Plug w/ LSZH Hood	GFSC-2011

GIGAFLIGHT's aerospace cables are designed to be resistant to Skydrol, will meet requirements of RoHS & REACH, & meets Federal Aviation Regulations 14 CFR part 25.869 (a)(4), Appendix F part I (a)(3).

