

**GF422E-USB2-5**

22 AWG, AEROSPACE GRADE USB 2.0


**USB 2.0 DATA CABLE**

The GF422E-USB2-5 is designed to meet the requirements of USB 2.0 applications up to 18ft. With a 100% foil and a 90% round wire braided shield, this design provides ample protection against EMI in the vast majority of applications. The GF422E-USB2-5 is an identical alternative for EMTEQ's U090-0422-100 cable. Contact GIGAFLIGHT if you're interested in having us build your USB cable assemblies.

**CABLE CONSTRUCTION**

Data Pair		
1	Conductors	22 AWG Stranded Silver-plated Copper
2	Insulation	Solid, High-temp FEP
	Color Code	White, Green
Power Wires		
3	Conductors	22 AWG Stranded, Tin-plated Copper
4	Insulation	Solid, High-temp ETFE
	Color Code	Red, Black
5	Binder	PTFE Tape
6	Inner Shield	Composite Foil
7	Outer Shield	38 AWG Tin-plated Copper Braid
8	Jacket	Green ETFE

**ENVIRONMENTAL & MECHANICAL PROPERTIES**

Outer Diameter	0.205" (5.21 mm)
Weight	28 lbs/1000 ft (41.67 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)	17 pF/ft (55.77 pF/m)	
Capacitance (cond to shield)	30 pF/ft (98.43 pF/m)	
Time Delay	1.46 ns/ft (4.79 ns/m)	
DC Resistance (Power Wires)	15.2Ω/1000 ft (49.9Ω/1000 m)	
Attenuation (+25°C)	Frequency	dB/100ft (100m)
	100 MHz	6.8 (22.3)
	200 MHz	10 (32.8)
	400 MHz	15 (49.2)

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).

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