

GF2428-USB2FX

28 AWG, AEROSPACE GRADE USB 2.0



USB-C 2.0 DATA CABLE

GIGAFLIGHT's new aerospace-grade USB-C cable, GF2428-USB2FX, is designed for high-speed charging in demanding environments. Engineered for durability in harsh aerospace conditions, these assemblies feature a flexible jacket and compact design for ease of use. They support USB 2.0 with 3A charging or 60W, with male and female connectors available. Our over-molding capability ensures a perfect fit for your specific application. 100W charging capabilities are currently in development. Contact GIGAFLIGHT for more information on our USB-C charging cable assemblies.

CABLE CONSTRUCTION

Data Pair		
1	Conductors	28 AWG Silver-plated Copper
2	Insulation	ePTFE/PTFE
	Color Code	Green, White
Power Wires		
3	Conductors	24 AWG Silver-plated Copper
4	Insulation	PI/PTFE
	Color Code	Red, Black
Discrete Wire		
5	Conductor	28 AWG Silver-plated Copper
6	Insulation	ePTFE/PTFE
	Color Code	Yellow
7	Filler	Kevlar
8	Binder	ePTFE Tape
9	Shield 1	Composite Foil
10	Shield 2	40 AWG Silver-plated Copper Braid
11	Jacket	White, Laser-markable Sintered PTFE Tape

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.126" (3.2 mm)
Weight	15 lbs/1000 ft (22.32 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	0.63" (16.0 mm)

ELECTRICAL PROPERTIES

Data Pair		
Impedance	90Ω	
Capacitance	15.5 pF/ft (50.85 pF/m)	
Time Delay	1.4 ns/ft (4.59 ns/m)	
DC Resistance (Power Wires)	15.2Ω/1000 ft (49.9Ω/1000 m)	
Dielectric Voltage Rating	1.0 kV RMS	
Attenuation (+25°C)	Frequency	dB/1 ft (1 m)
	400 MHz	0.24 (0.80)

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).

