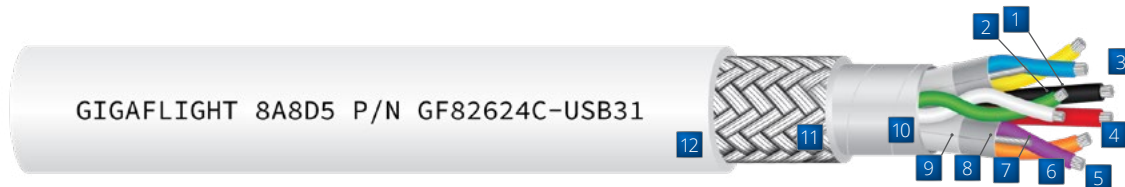


# GF82624C-USB31

26 AWG, AEROSPACE GRADE USB 3.1



## USB-C 3.1 DATA CABLE

The GF82624C-USB31 from GIGAFLIGHT supports USB 3.1, 3.0, and is backwards compatible with 2.0 for versatile connectivity. This high-performance cable delivers uninterrupted data transmission up to 10 Gbps, making it ideal for in-flight connectivity, data transfer, and HD video streaming in demanding aerospace environments. Constructed with a twisted pair of 26 AWG silver-plated HSCA conductors and dual-layer shielding (100% composite foil and 80% silver-plated copper braid), it provides superior EMI protection. Advanced avionics systems depend on this cable to handle high volumes of data and video transmission instantly.

### CABLE CONSTRUCTION

Data Pair		
1	Conductors	26 AWG Silver-plated HSCA
2	Insulation	Solid Fluoropolymer
	Color Code	Green, White
Power Wires		
3	Conductors	24 AWG Silver-plated HSCA
4	Insulation	Solid Fluoropolymer
	Color Code	Red, Black
Shielded Data Pairs		
5	Conductor	26 AWG Silver-plated HSCA
6	Insulation	Solid Fluoropolymer
	Color Code	Pair 1: Violet, Orange; Pair 2: Blue, Yellow
7	Drain Wire	28 AWG Stranded, Silver-plated Copper
8	Shielded Pair	Composite Foil
9	Inner Jacket	PTFE Isolation Wrap
10	Shield 1	Composite Foil
11	Shield 2	38 AWG Silver-plated Copper Braid, 80% Coverage
12	Jacket	White, Laser-markable ETFE

### ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.228" (5.79 mm)
Weight	34 lbs/1000 ft (50.59 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	2.0" (50.8 mm)

### ELECTRICAL PROPERTIES

Data Pair		
Impedance	90Ω	
Capacitance	16.7 pF/ft (54.79 pF/m)	
Time Delay	1.46 ns/ft (4.79 ns/m)	
DC Resistance (Power Wires)	28.4Ω/1000 ft (93.18Ω/1000 m)	
Attenuation (+25°C)	Frequency	dB/1 ft (1 m)
	625 MHz	0.3 (1.0)
	1250 MHz	0.4 (1.4)
	2500 MHz	0.6 (2.0)
	5000 MHz	0.91 (3.0)
7500 MHz	1.3 (4.1)	

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).

