

**GF824C-7**

24 AWG, AEROSPACE GRADE CAT7 CABLE


**CAT7 10G ETHERNET CABLE**

GIGAFLIGHT's GF824C-7 is an identical alternative to PIC's E74824, delivering 10G CAT7 data performance for demanding aerospace & defense applications. Featuring 4-24AWG stranded, silver-plated HSCA conductors with dual-layer high-temp insulation, 100% composite foil shield around each pair, and a 90% silver-plated copper braid shield, this cable provides superior reliability and flexibility. Perfect for airborne 10G Base-T CAT7 LAN applications such as cabin management systems, in-flight entertainment, and Ethernet backbones.

**CABLE CONSTRUCTION**

1	Conductors	24 AWG Stranded, Silver-plated HSCA
2	1 <sup>st</sup> Insulation	Solid, High-temp Fluoropolymer
	Color Codes	Pair 1: Blue, White; Pair 2: Orange, White; Pair 3: Green, White; Pair 4: Brown, White
3	2 <sup>nd</sup> Insulation	Foamed, High-temp Fluoropolymer
	Color Codes	Pair 1: White/Blue, White; Pair 2: White/Orange, White; Pair 3: White/Green, White; Pair 4: White/Brown, White
4	Shield 1	Composite Foil (100% coverage)
5	Shield 2	38 AWG Silver-plated Copper Braid (90% coverage)
6	Jacket	White, Laser-markable Tefzel

**ENVIRONMENTAL & MECHANICAL PROPERTIES**

Outer Diameter	0.274" (6.96 mm)
Weight	56.35lbs/1000 ft (83.86kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.3" (33.02 mm)

**ELECTRICAL PROPERTIES**

Impedance	100Ω	
Capacitance	13 pF/ft (42.65 pF/m)	
DC Resistance	28.4Ω/1000 ft (93.18Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Attenuation (+25°C)	Frequency	dB/1 ft (1 m)
	100 MHz	6.6 (21.7)
	250 MHz	10.8 (35.4)
	500 MHz	15.7 (51.5)
	600 MHz	17.5 (57.4)

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).

414.488.6320 | [www.gigaflightinc.com/contact-us](http://www.gigaflightinc.com/contact-us)  
 6180 Industrial Court, Greendale, WI 53129

