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# GF824A-5E

24 AWG, AEROSPACE ETHERNET CABLE



## 1000BASE-T Gb 4-PAIR ETHERNET CABLE

The GF824A-5E is designed to deliver 1000Base-T Gigabit performance in accordance to ANSI/TIA-568-C.2 up to 268ft. The GF824A-5E is an identical alternative to PIC Wire's E50824. With a 100% foil and an 90% round wire braided shield, this design provides ample protection against EMI in the vast majority of applications. This product is sold in bulk or CAT5E tested assemblies. Please contact GIGAFLIGHT for a quote.

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

CABLE CONSTRUCTION		
1	Conductor	24 AWG Stranded, Silver-plated Copper
2	Insulation	Solid, High-temp Fluoropolymer
	Color Codes	Pair 1: Blue, White/Blue Pair 2: Orange, White/Orange Pair 3: Green, White/Green Pair 4: Brown, White/Brown
3	Spline	Foamed, High-temp Fluoropolymer
4	Binder	PTFE Tape
5	Shield 1	Composite Foil
6	Shield 2	38 AWG Silver-plated Copper Braid
7	Jacket	Translucent Blue Fluoropolymer

ENVIRONMENTAL & MECHANICAL PROPERTIES	
Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.27" (6.86 mm)
Weight	45 lbs/1000 ft (66.97 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.4" (35.56 mm)

## JACKET COLORS & APPLICATIONS

GF824A-5E	Translucent Blue	Standard
GF824A-5E-0	Black	Secure Data
GF824A-5E-1	White	Laser Markable
GF824A-5E-2	Red	Secure Data
GF824A-5E-3	Orange	Flight Test Data

## ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.5 pF/ft (47.6 pF/m)	
Velocity of Propagation	70%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Max. Distance	268 ft (81.69 m)	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.2 (7.2)
	100 MHz	6.8 (22.3)

## CONNECTORS

STYLE	P/N
Ruggedized RJ45 Straight Plug, T568A	GFSC-2007
Ruggedized RJ45 Right Angle Plug, T568A	GFSC-2008
Ruggedized RJ45 Straight Plug, T568B	GFSC-2021
Ruggedized RJ45 Right Angle Plug, T568B	GFSC-2022
Standard RJ45 Straight Plug	GFSC-2029

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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