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GF824A-5E

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	Fluoropolymer
4	Binder	PTFE Tape
5	Shield 1	Composite Foil
6	Shield 2	38 AWG Silver-plated Copper Braid
7	Jacket	Translucent Blue Fluoropolymer

CONNECTORS

STYLE	P/N
CAT 6A Shielded RJ45 Straight Plug	GFSC-2029
CAT 6A Shielded RJ45 Straight Plug	GFSC-2007
CAT 6A Shielded RJ45 Right Angle Plug	GFSC-2008

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 1 (a)(3).

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

ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.27" (6.86 mm)
Weight	50 lbs/1000 ft (74 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.40" (35.56 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.50 pF/ft (47.6 pF/m)	
Velocity of Propagation	70%	
DC Resistance	28.50 Ω/1000 ft (93.5 Ω/1000 m)	
Dielectric Voltage Rating	1.50 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)

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