

GF424A-5E

AEROSPACE ETHERNET CABLE



10/100BASE-T 2-PAIR ETHERNET CABLE

The GF424A-5E is designed to deliver 10/100Base-T Gigabit performance in accordance to ANSI/TIA-568-C.2 up to 268ft. The GF424A-5E is an identical alternative to PIC Wire's E10424. With a 100% foil and a 90% round wire braided shield, this design provides ample protection against EMI in the vast majority of applications. 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 SPC
2	Insulation	Foamed High-temp. Fluoropolymer
	Color Codes	Pair 1: Blue, White Pair 2: Orange, Green
3	Shield 1	Foil
4	Shield 2	38 AWG Silver-plated Copper Braid
5	Jacket	Fluoropolymer (Translucent Blue)

CONNECTORS

STYLE	P/N
CAT5E Shielded RJ45 Straight Plug	GFSC-2025

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).

JACKET COLORS & APPLICATIONS

GF424A-5E	Translucent Blue	Standard
GF424A-5E-1	White	Laser Markable
GF424A-5E-2	Red	Secure Data
GF424A-5E-3	Orange	Flight Test Data
GF424A-5E-0	Black	Secure Data

ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.21" (5.33mm)
Weight	33 lbs/1000 ft (49 kg/1000m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.10" (27.94mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	13.0 pF/ft max. (42.7 pF/m)	
Velocity of Propagation	80%	
DC Resistance	28.50 Ω/1000 ft max.	
Dielectric Voltage Rating	1.50 kV RMS	
Max. Distance	268ft (81.69m)	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.2 (7.2)
	100 MHz	6.0 (19.7)

