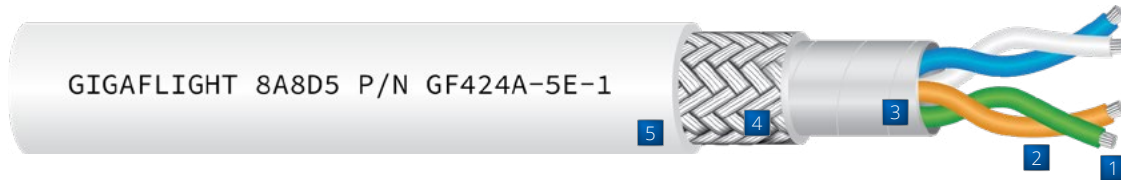




...Your form, fit & function provider

GF424A-5E-1

24 AWG, AEROSPACE ETHERNET CABLE



10/100BASE-T 2-PAIR ETHERNET CABLE

GIGAFLIGHT's GF424A-5E-1 is designed to deliver 10/100Base-T Gigabit performance in accordance to ANSI/TIA-568-C.2 up to 268ft. The GF424A-5E-1 is a suitable alternative to PIC's E10424, featuring a white, laser-markable jacket. 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.

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: White, Blue Pair 2: Green, Orange
3	Shield 1	Composite Foil
4	Shield 2	38 AWG Silver-plated Copper Braid
5	Jacket	White, Laser-markable Tefzel

JACKET COLORS & APPLICATIONS

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

ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.20" (5.08 mm)
Weight	29 lbs/1000 ft (43.16 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.1" (27.94 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	13 pF/ft (42.65 pF/m)	
Velocity of Propagation	80%	
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	6.0 (19.7)

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).

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