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GF424A-CAT5E

24 AWG, AEROSPACE ETHERNET CABLE



10/100BASE-T 2-PAIR ETHERNET CABLE

The GF424A-CAT5E is designed to deliver 10/100Base-T Gigabit performance in accordance to ANSI/TIA-568-C.2 up to 296ft. The GF424A-CAT5E is an identical alternative to PIC's E20424 and a suitable alternative to Amphenol's 922404. With a 100% foil and a 90% round wire braided shield and dual-wall construction, 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	Conductors	24 AWG Stranded SPC
2	Inner Insulation	Solid, High-temp Fluoropolymer
	Color Code	Pair 1: Blue, White; Pair 2: Orange, White
3	Outer Insulation	Foamed, High-temp Fluoropolymer
	Color Code	Pair 1: White, Blue; Pair 2: White, Orange
4	Shielded Pair	Composite Foil
5	Drain Wire	24 AWG Tin-plated Copper
6	Binder	Clear Mylar Tape
7	Inner Shield	Composite Foil
8	Outer Shield	38 AWG Silver-plated Copper Braid
9	Jacket	Translucent Blue FEP

ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.25" (6.38 mm)
Weight	41.8 lbs/1000 ft (62.21 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.25" (31.75 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	13.4 pF/ft (43.96 pF/m)	
Velocity of Propagation	76%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Max. Distance	296 ft (90.22 m)	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.2 (7.2)
	100 MHz	7.6 (24.9)

JACKET COLORS & APPLICATIONS

GF424A-CAT5E	Translucent Blue	Standard
GF424A-CAT5E-0	Black	Secure Data
GF424A-CAT5E-1	White	Laser Markable
GF424A-CAT5E-2	Red	Secure Data
GF424A-CAT5E-3	Orange	Flight Test Data

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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