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## GF422A-5E

22 AWG, AEROSPACE ETHERNET CABLE



### 10/100BASE-T 2-PAIR ETHERNET CABLE

The GF422A-5E is designed to deliver 10/100Base-T Gigabit performance in accordance to ANSI/TIA-568-C.2 up to 268ft. The GF422A-5E is an identical alternative to PIC Wire's E10422. 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	22 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

#### 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 1 (a)(3).

#### JACKET COLORS & APPLICATIONS

GF422A-5E	White	Std, Laser Markable
GF422A-5E-0	Black	Secure Data
GF422A-5E-2	Red	Secure Data
GF422A-5E-3	Orange	Flight Test Data

#### ENVIRONMENTAL & MECHANICAL PROPERTIES

Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter	0.3" (7.62 mm)
Weight	37 lbs/1000 ft (55.06 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.8" (45.72 mm)

#### ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	13 pF/ft (42.7 pF/m)	
Velocity of Propagation	80%	
DC Resistance	15.2 Ω/1000 ft (49.87 Ω/1000 m)	
Dielectric Voltage Rating	0.9 kV RMS	
Max. Distance	268 ft (81.69 m)	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	1.4 (4.6)
	100 MHz	4.5 (14.8)

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