

GF100-24CAT6A

CATEGORY 6A ETHERNET CABLE



CAT6A 10Gb ETHERNET CABLE

The GF100-24CAT6A is designed to deliver 10 Gigabit performance in accordance to ANSI/TIA 568 Category 6a up to 246ft. The GF100-24CAT6A is a suitable electrical alternative to the PIC's E6A6824 and Carlisle's MX10G-24. 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 CAT6A tested assemblies. Please contact GigaFlight for a quote.

If your project requires a specific jacket color that is called out in the table below, please contact us for availability.

JACKET COLORS & APPLICATIONS

GF100-24CAT6A	Blue	Standard
GF100-24CAT6A-1	White	Laser Markable
GF100-24CAT6A-2	Red	Secure Data
GF100-24CAT6A-3	Orange	Flight Test Data
GF100-24CAT6A-5	Olive Drab	Covert Subdued

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.28"
Weight	53 lbs per 1000 ft
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.40"

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.50 pF per ft	
Velocity of Propagation	70%	
DC Resistance	28.50 Ω/1000 ft max.	
Dielectric Voltage Rating	1.50 KV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft
	10 MHz	2.2
	100 MHz	6.8
	250 MHz	10.9
	500 MHz	18.7

All GIGAFLIGHT aerospace cables are designed to be resistant to Skydrol, are RoHS & REACH compliant and will meet the flammability requirements of the Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amendment 25-113, Appendix F Part I(a)(3)

CABLE CONSTRUCTION

1	Conductor	24 AWG Silver-plated Copper
2	Insulation	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	Foil
6	Shield 2	Tin-plated Copper Braid
7	Jacket	Fluoropolymer

CONNECTORS

STYLE	P/N
CAT 6A Shielded RJ45 Straight Plug	GFSC-2006
CAT 6A Shielded RJ45 Straight Plug	GFSC-2007
CAT 6A Shielded RJ45 Right Angle Plug	GFSC-2008

