

GF100-24CAT6A

24 AWG, 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 a 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.

CABLE CONSTRUCTION

1	Conductor	24 AWG Stranded, Silver-plated HSCA
2	Insulation	Solid, High-temp 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	Composite Foil
6	Shield 2	38 AWG Tin-plated Copper Braid
7	Jacket	Blue Fluoropolymer

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.28" (7.11 mm)
Weight	47 lbs/1000 ft (69.9 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.4" (35.56 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.5 pF/ft (47.6 pF/m)	
Velocity of Propagation	70%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000m)	
Dielectric Voltage Rating	1.5 kV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.2 (7.2)
	100 MHz	6.8 (22.3)
	250 MHz	10.9 (35.8)
	500 MHz	18.7 (61.4)

CONNECTORS

STYLE	P/N
Standard RJ45 Straight Plug	GFSC-2006
Ruggedized RJ45 Straight Plug, T568A	GFSC-2007
Ruggedized RJ45 Right Angle Plug, T568A	GFSC-2008
Ruggedized RJ45 Straight Plug, T568B	GFSC-2021
Ruggedized RJ45 Right Angle Plug, T568B	GFSC-2022

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).

