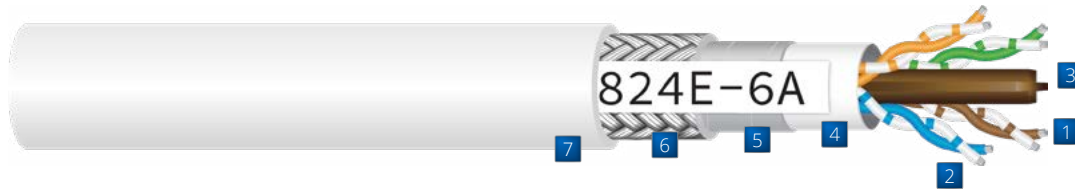


GF824E-6A

24 AWG, CATEGORY 6A ETHERNET CABLE



CAT6A 10Gb ETHERNET CABLE

The GF824E-6A is designed to deliver 10 Gigabit performance in accordance to ANSI/TIA 568 Category 6A up to 246ft (74.98m). The GF824E-6A is a suitable electrical alternative to the E6A6824 and MX10G-24.

Should your application require a higher operating temperature, the GF824E-6A features a tin-plated outer braid giving it a rating of up to +150°C versus the GF824A-6A, which features a sliver-plated outer braid and temperature rating of up to +200°C. Please contact GIGAFLIGHT for pricing.

This product is sold in bulk or as CAT6A tested assemblies. If your project requires a specific jacket color that is call out in the jacket color table, please contact us for availability.

CABLE CONSTRUCTION

1	Conductor	24 AWG Stranded SPC
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	Foamed, High-temp Fluoropolymer
4	Binder	PTFE Tape
5	Shield 1	Composite Foil
6	Shield 2	38 AWG Tin-plated Copper Braid
7	Jacket	White, Laser-markable Tefzel

JACKET COLORS & APPLICATIONS

GF824E-6A	White	Standard
GF824E-6A-2	Red	Secure Data
GF824E-6A-3	Orange	Flight Test Data

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.262" (6.65 mm)
Weight	50 lbs/1000 ft (74.41 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.3" (33.02 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	14.5 pF/ft (47.57 pF/m)	
Velocity of Propagation	70%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000 m)	
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	15.6 (51.2)

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).

