

GF822D-6AM

22 AWG, CATEGORY 6A ETHERNET CABLE



CAT6A 10Gb ETHERNET CABLE

The GF822D-6AM is a custom, color coded cable designed to deliver 10 Gigabit performance in accordance to ANSI/TIA 568 Category 6A up to 246ft (74.98m). With a 100% foil and a 90% round wire braided shield, this design provides ample protection against EMI in the vast majority of applications.

The GF822D-6AM is sold in bulk or as CAT6A tested assemblies. Please contact GIGAFLIGHT for a quote.

CABLE CONSTRUCTION

1	Conductor	22 AWG Stranded, Tin-plated Copper
2	Insulation	Solid, High-temp Fluoropolymer
	Color Codes	Pair 1: Green, Yellow Pair 2: Blue, White Pair 3: Orange, Purple Pair 4: Brown, Gray
3	Spline	Foamed, High-temp Fluoropolymer
4	Binder	PTFE Tape
5	Shield 1	Composite Foil
6	Drain Wire	24 AWG Tin-plated Copper
7	Shield 2	38 AWG Tin-plated Copper Braid
8	Jacket	White, Laser-markable Tefzel

CONNECTORS

STYLE	P/N
Ruggedized RJ45 Straight Plug, T568A	GFSC-2007
Ruggedized RJ45 Right Angle Plug, T568A	GFSC-2008

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.32" (8.13mm)
Weight	60 lbs/1000 ft (89.29 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.6" (40.64 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω		
Capacitance	35 pF/ft (114.83 pF/m)		
Velocity of Propagation	70%		
DC Resistance	14.85 Ω/1000 ft (48.72 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)		

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).

