

GF824B-6A

CATEGORY 6A ETHERNET CABLE



CAT6A 10Gb ETHERNET CABLE

The GF824B-6A is designed to deliver 10 Gigabit performance in accordance to ANSI/TIA 568 Category 6A up to 246ft. The GF824B-6A is a suitable electrical alternative to the E6A6824 and 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. 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 jacket color table, please contact us for availability.

JACKET COLORS & APPLICATIONS

| | | |
|-------------|--------|------------------|
| GF824B-6A | White | Standard |
| GF824B-6A-2 | Red | Secure Data |
| GF824B-6A-3 | Orange | Flight Test Data |

ENVIRONMENTAL & MECHANICAL PROPERTIES

| | |
|-----------------------|--------------------|
| Outer Diameter | 0.26" |
| Weight | 44 lbs per 1000 ft |
| Operating Temperature | -55°C to +150°C |
| Minimum Bend Radius | 1.30" |

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 (m) |
| | 10 MHz | 2.3 (7.5) |
| | 100 MHz | 7.0 (23.0) |
| | 250 MHz | 11.4 (37.4) |
| | 500 MHz | 16.5 (58.1) |

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).

CABLE CONSTRUCTION

| | | |
|---|-------------|--|
| 1 | Conductor | 24 AWG Stranded SPCA |
| 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 | 38 AWG Tin-plated Copper Braid |
| 7 | Jacket | Laser Markable ETFE |

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 |

