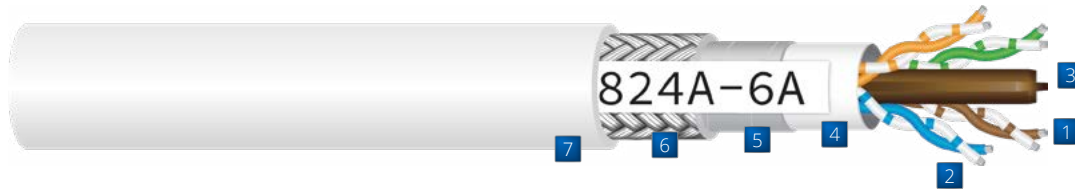


GF824A-6A

24 AWG, CATEGORY 6A ETHERNET CABLE



CAT6A 10Gb ETHERNET CABLE

The GF824A-6A is designed to deliver 10 Gigabit performance in accordance to ANSI/TIA 568 Category 6A up to 246ft (74.98m). The GF824A-6A is a suitable electrical alternative to the E6A6824 and MX10G-24.

Should your application require a higher operating temperature, the GF824A-6A features a silver-plated outer braid giving it a rating of up to +200°C versus the GF824E-6A, which features a tin-plated outer braid and temperature rating of up to +150°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 Silver-plated Copper Braid |
| 7 | Jacket | White, Laser-markable ETFE |

ENVIRONMENTAL & MECHANICAL PROPERTIES

| | |
|-----------------------|----------------------------------|
| Outer Diameter | 0.26" (6.6 mm) |
| Weight | 44 lbs/1000 ft (65.48 kg/1000 m) |
| Operating Temperature | -55°C to +200°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) |

JACKET COLORS & APPLICATIONS

| | | |
|-------------|--------|------------------|
| GF824A-6A | White | Standard |
| GF824A-6A-2 | Red | Secure Data |
| GF824A-6A-3 | Orange | Flight Test Data |

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).

