

GF100T-24CAT5

24 AWG, HIGH SPEED DATA BUS (HSDB)


TWO PAIR, CAT5 ETHERNET CABLE

The GF100T-24CAT5 is designed to meet ARINC 646 Local Area Network (LAN) applications as well as RS422 and RS485 applications. This cable is an identical alternative for Carlisle's 392404, most commonly used as a Garmin Systems HSDB. The double shielded construction, 100% foil and 90% round wire braid shield, provides the necessary shielding effectiveness for the vast majority of aerospace HSDB applications.

CABLE CONSTRUCTION

1	Conductor	24 AWG, Stranded Tin-plated Copper
2	Insulation	Foamed, High-temp Fluoropolymer
	Color Codes	Pair 1: Blue/White, White/Blue Pair 2: Orange/White, White/Orange
3	Inner Shield	Composite Foil
4	Outer Shield	38 AWG Tin-plated Copper Braid
5	Jacket	White, Laser-markable Tefzel

CONNECTORS

STYLE	P/N
CAT 5 RJ45 Connector Kit	GFSC-2025

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.234" (5.84 mm)
Weight	30 lbs/1000 ft (44.64 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.2" (30.48 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	12.4 pF/ft (40.68 pF/m)	
Velocity of Propagation	78%	
DC Resistance	28.5 Ω/1000 ft (93.5 Ω/1000 m)	
Dielectric Voltage Rating	0.9 kV RMS	
Skew	12.8 ns/100 ft (42 ns/100 m) BUS	
Attenuation	Frequency	dB/100 ft (m)
	10 MHz	2.1 (6.9)

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).

