

## GF125-24ASCB-D

24 AWG, TTP/ASCB DATA BUS/CAN BUS 1 PAIR CABLE



### INNOVATIVELY DESIGNED DATA BUS

The GF125-24ASCB-D is a laser wire markable, Aerospace-grade Data Bus cable designed for use with Honeywell ASCB Data Bus and Servo CAN Bus for the Primus EPIC/APEX integrated avionics system.

The GF125-24ASCB-D is a 125 ohm Twinax, which means the insulation thickness is increased to achieve 125 ohms between the conductors. The increased thickness creates an issue with contact extraction because the insulation OD is larger than the contact. With GIGAFLIGHT's Data Bus, we have solved this issue by using a dual-wall insulation design.

The first layer of insulation is a thinner wall high temp PFA with a finished diameter less than the contact OD. The second layer of insulation is a foamed FEP that provides the separation between the wires to maintain a 125 ohms-controlled impedance throughout. A section of the foamed insulation is removed in the termination process to provide access for contact removal. An added benefit of a dual-wall construction is that the solid insulation eliminates insulation creep back, a common issue with an all foam insulation design.

### CABLE CONSTRUCTION

1	Conductors	24 AWG Stranded, Silver-plated HSCA
2	Inner Insulation	Solid, High-temp Fluoropolymer
	Color Code	Blue, White
3	Outer Insulation	Foamed, High-temp Fluoropolymer
	Color Code	White, White
4	Inner Shield	Composite Foil (100% Min. Coverage)
5	Outer Shield	38 AWG TPC Braid (90% Min. Coverage)
6	Jacket	White, Laser-markable Tefzel

### ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.2" (5.08 mm)
Weight	23 lbs/1000 ft (34.23 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.0" (25.4 mm)

### ELECTRICAL PROPERTIES

Impedance	125Ω	
Capacitance	11.0 pF/ft (36.09 pF/m)	
Velocity of Propagation	75%	
DC Resistance	27.5 Ω/1000 ft (90.22 Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	10 MHz	2.0 (6.6)
	100 MHz	6.3 (20.7)



Don't forget to download the dual-wall stripping instructions

Direct URL: [bit.ly/3Jwmy5y](https://bit.ly/3Jwmy5y)

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).

