

GF100-24TWIN-1

24 AWG, LASER-MARKABLE TWINAX CABLE



GIVING YOU OPTIONS

The GF100-24TWIN-1 is an aerospace 100 Ohm twisted pair used in RS422, RS485, NTSC/PAL and RS170 data and video applications. In addition to the above, this cable is designed to meet 10/100 Base-T applications as specified in ARINC 664. The double shielded construction, 100% foil and 95% round wire braid shield, provides the necessary shielding effectiveness for the vast majority of aerospace applications.

This cable is a white jacketed laser-markable alternative to commonly used PIC's E10224, and Carlisle's NF24T100. The cable can also be ordered with different color jackets to accommodate your application(s). See Jacket color table.

CABLE CONSTRUCTION

1	Conductor	24 AWG Stranded, Silver-plated HSCA
2	Insulation	Foamed, High-temp Fluoropolymer
	Color Code	Blue, White
3	Shield 1	Composite Foil
4	Shield 2	38 AWG Silver-plated Copper Braid
5	Jacket	White, Laser-markable Tefzel

JACKET COLORS & APPLICATIONS

GF100-24TWIN-1	White	Laser Markable
GF100-24TWIN-2	Red	Secure Data
GF100-24TWIN-3	Orange	Flight Test Data
GF100-24TWIN-5	Olive Green	Covert Subdued
GF100-24TWIN-6	Blue	Standard Data

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.142" (3.56 mm)
Weight	23 lbs/1000 ft (34.23 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	0.71" (18.03 mm)

ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	12.5 pF/ft (41.01 pF/m)	
Velocity of Propagation	80%	
DC Resistance	28.4 Ω/1000 ft (93.2 Ω/1000 m)	
Dielectric Voltage Rating	0.90 kV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft
	10 MHz	1.8 (5.9)
	100 MHz	5.8 (19.0)

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).

