

# GF100-22TWIN

22 AWG, LASER-MARKABLE TWINAX CABLE



## GIVING YOU OPTIONS

The GF100-22TWIN is an aerospace 100 Ohm twisted pair used in RS422, RS485, NTSC/PAL and RS170 data and video applications. In addition, 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 E10222. The cable can also be ordered with different color jackets to accommodate your application(s). See Jacket color table.

### CABLE CONSTRUCTION

1	Conductor	22 AWG Stranded, Tin-plated Copper
2	Insulation	Foamed, High-temp Fluoropolymer
	Color Code	White, Blue
3	Shield 1	Composite Foil
4	Shield 2	38 AWG TPC Round Braid
5	Jacket	White, Laser-markable Tefzel

### JACKET COLORS & APPLICATIONS

GF100-22TWIN	White	Laser Markable
GF100-22TWIN-2	Red	Secure Data
GF100-22TWIN-3	Orange	Flight Test Data
GF100-22TWIN-5	Olive Green	Covert Subdued
GF100-22TWIN-6	Blue	Standard Data

### ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.19" (4.83 mm)
Weight	23 lbs/1000 ft (34.23 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	0.95" (24.13 mm)

### ELECTRICAL PROPERTIES

Impedance	100Ω	
Capacitance	13 pF/ft (42.65 pF/m)	
Velocity of Propagation	80%	
DC Resistance	15.8Ω/1000 ft (51.8 Ω/1000 m)	
Dielectric Voltage Rating	0.90 kV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft
	10 MHz	1.5 (4.9)
	100 MHz	5.4 (17.7)

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).

