

...Your form, fit & function provider

## **GF100-24TPNS**

LASER-MARKABLE TWINAX CABLE

GIGAFLIGHT P/N GF100-24TPNS



## 1-PAIR UNSHIELDED 100Ω 10/100BASE-T CABLE

The GIGAFLIGHT GF100-24TPNS is a 100  $\Omega$  High Speed, Single Twisted Data Pair Cable, which is designed for In-Flight Entertainment systems (IFE) that do not require shielding. This cable is used in RS422, RS485, NTSC/PAL, and RS170 data and video applications where it has been determined that an unshielded data pair can be used.

The GF100-24TPNS is a laser markable alternative to commonly used PIC E60224, with the added benefit of a silver-plated copper alloy (SPCA\*) conductor.

Users of the new unshielded Twisted Pair Cable will all benefit from reduced weight and size, greater flexibility, smaller bend radius, much lower cost, and reduced installation time!

\*The SPCA, 24 gauge conductor will meet the requirements of SAE International Aerospace Standard AS50881, which states in paragraph 3.8.8, "Use of size 24 gauge wires in a harness shall be limited to wires which have break strength of 20lbs minimum."

CABLE CONSTRUCTION				
1	Conductor	24 AWG Stranded Silver-plated Copper Alloy		
2	Insulation	Solid Fluoropolymer		
3	Fillers	FEP		

White, laser-markable, Tefzel

ENVIRONMENTAL & MECHANICAL PROPERTIES				
Outer Diameter	0.10" (2.54mm)			
Weight	9 lbs/1000 ft (13 kg/1000m)			
Operating Temperature	-55°C to +200°C			
Minimum Bend Radius	0.60" (15.24mm)			

ELECTRICAL PROPERTIES					
Impedance	100Ω				
Capacitance	14.5 pF/ft (47.6 pf/m)				
Velocity of Propagation	70%				
DC Resistance	28.5Ω/1000ft max. (93.5Ω/1000m				
Dielectric Voltage Rating	1.5 kV RMS				
Attenuation (+25°C)	Frequency	dB/100 ft			
	10 MHz	1.9 (6.2)			
	100 MHz	7.2 (23.6)			

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).



4 Jacket