**GF100-24TPNS** 

24 AWG, LASER-MARKABLE TWINAX CABLE



...Your form, fit & function provider



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

GIGAFLIGHT

P/N

GF100-24TPNS

The GIGAFLIGHT GF100-24TPNS is a  $100\Omega$  High Speed, Single Twisted, Data Pair Cable, which is designed for In-Flight Entertainment systems (IFE) where an unshielded cable meets the installation requirement. 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 silverplated high-strength copper alloy (SPHSCA\*) conductor.

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

\*The SPHSCA, 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 HSCA		
2	Insulation	Solid, High-temp Fluoropolymer		
Color Code		Blue, White		
3	Fillers	FEP		
4	Jacket	White, Laser-markable Tefzel		

## ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.10" (2.54mm)	
Weight	7 lbs/1000 ft (10.42 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	2.4 (7.9)			
	100 MHz	8.0 (26.3)			

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).

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