GIGAFLIGHT CONNECTIVITY INC.

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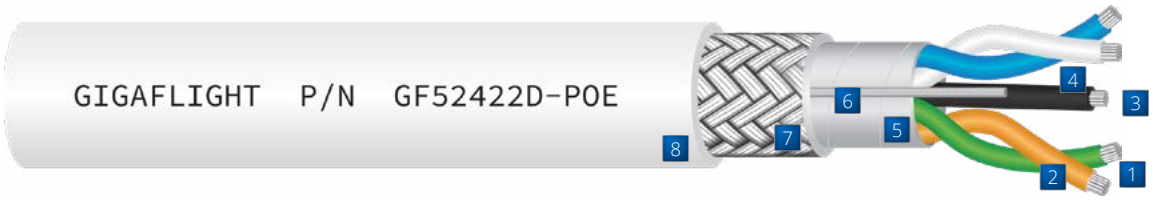
GF52422D-POE

24 AWG, POWER OVER ETHERNET (PoE) CAT 5e CABLE



POWER OVER ETHERNET (PoE) CAT 5e CABLE

GIGAFLIGHT's GF52422D-POE 100Ω cable transmits both data and power along a shielded, 24 AWG twisted-pair Ethernet cable combined with one 22 AWG power conductor. Designed as a high-reliability PoE optimized for demanding applications and constructed of sturdy, laser-markable Tefzel — similar to the GF62422D-POE with one less power wire. GIGAFLIGHT's GF52422D-POE meets and exceeds CAT5e channel requirements.

Power over Ethernet (PoE) cables are commonly used for cabin management and IFE systems on aircraft, and GIGAFLIGHT is giving users options – maximum performance in a lightweight, flexible cable.

CABLE CONSTRUCTION		
1	Conductor	24 AWG Stranded, Tin-plated Copper
2	Insulation	Foamed, High-temp Fluoropolymer
	Color Codes	Pair 1: Blue/White Pair 2: Orange/Green
3	Conductor	22 AWG Stranded, Tin-plated Copper
4	Insulation	Solid, High-temp Fluoropolymer
	Color Codes	Power Conductor: Black
5	Inner Shield	Composite Foil
6	Drain Wire	26 AWG Stranded, Tin-plated Copper
7	Outer Shield	38 AWG Tin-plated Copper Braid
8	Jacket	White, Laser-markable Tefzel

ENVIRONMENTAL & MECHANICAL PROPERTIES	
Outer Diameter	0.21" (5.33 mm)
Weight	38 lbs/1000 ft (56.55 kg/1000 m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.0" (25.4 mm)

ELECTRICAL PROPERTIES: DATA PAIR		
Impedance	100Ω	
Capacitance	13 pF/ft (42.65 pF/m)	
Velocity of Propagation	80%	
DC Resistance (max)	26.2 Ω/1000 ft (85.95 Ω/1000 m)	
Dielectric Voltage	0.9 kV RMS	
Attenuation	Frequency	dB/100 ft (m)
	10 MHz	2.3 (7.5)
	100 MHz	6.8 (22.3)

ELECTRICAL PROPERTIES: POWER PAIR	
DC Resistance (max)	16.2 Ω/1000 ft (53.15 Ω/1000 m)
Dielectric Voltage	0.6 kV RMS

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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