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GF120T-24CANB

GARMIN APPROVED CAN BUS CABLE

GIGAFLIGHT P/N GF120T-24CANB



INNOVATIVELY DESIGNED CAN BUS

The GF120T-24CANB is a laser wire markable, Aerospace-grade CAN Bus, approved by Garmin, for use with Garmin's CAN Bus System architectures. CAN Bus is designed to be a 120 ohm Twinax, which means the insulation thickness is increased to achieve 120 ohms between the conductors. The increased thickness creates an issue with contact extraction because the insulation OD is larger than the contact. With GIGAFLIGHT's CAN Bus, we have solved this issue by using a dual-wall insulation design.

The first layer of insulation is a thinner wall high temp PFA with a finished diameter less than the contact OD. The second layer of insulation is a foamed FEP that provides the separation between the wires to maintain a 120 ohms-controlled impedance throughout. A section of the foamed insulation is removed in the termination process to provide access for contact removal. An added benefit of a dual-wall construction is that the solid insulation eliminates insulation creep back, a common issue with an all foam insulation design.

CABLE CONSTRUCTION				
1	Conductors	24 AWG Stranded SPCA		
2	Inner Insulation	Solid Fluoropolymer		
3	Outer Insulation	Foamed Fluoropolymer		
	Color Code	Blue, White		
4	Filler	FEP		
5	Binder	PTFE Tape		
6	Shield	TPC Woven Strip, 92% Min Coverage		
7	Jacket	White, laser-markable, Tefzel		

ENVIRONMENTAL & MECHANICAL PROPERTIES					
Outer Diameter	0.142"				
Weight	17.5 lbs per 1000 ft				
Operating Temperature	-55°C to +150°C				
Minimum Bend Radius	0.76"				

ELECTRICAL PROPERTIES					
Impedance	120Ω				
Capacitance	11.5 pF per ft				
Velocity of Propagation	75%				
DC Resistance	28.1Ω/1000 ft max.				
Shield DCR	13.3 Ω/1000 ft				
Dielectric Voltage Rating	1.5 KV RMS				
Attenuation (+25°C)	Frequency	dB/100 ft			
	1 MHz	1.0			
	6 MHz	2.0			
	10 MHz	2.7			
	100 MHz	7.4			

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), Amendment 25-113, Appendix F part I (a)(3).

