

GF5-89D

LOW-LOSS HIGH-PERFORMANCE COAX



GIVING YOU OPTIONS

GIGAFLIGHT's 50Ω coaxial cable, GF5-89D, is designed as a suitable alternative for Carlisle's 421601. Featuring a laser-markable jacket and constructed with similar materials and electrical properties, it simplifies the design approval process. Additionally, the GF5-89D is compatible with XXX922 series connectors, ensuring identical electrical characteristics, strip dimensions, and tooling requirements.

CABLE CONSTRUCTION

1	Center Conductor	16 AWG Solid Bare Copper Wire
2	Dielectric	Low-density PTFE
3	Inner Shield	Composite Foil
4	Outer Shield	Tin-plated Copper Wire Braid
5	Jacket	White, Laser-markable Tefzel

CONNECTORS

STYLE	P/N	STYLE	P/N
TNC Straight	GF5-TS71T	N Straight	GF5-NS71T
TNC 90°	GF5-TA71T	N 90°	GF5-NA71T
TNC Bulkhead	GF5-TB71T	N Bulkhead	GF5-NB71T
BNC Straight	GF5-BS71T	SMA Straight	GF5-SS71T
BNC 90°	GF5-BA71T	SMA 90°	GF5-SA71T
C 90°	GF5-CA71T	SMA Bulkhead	GF5-SB71T

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.205" (5.21 mm)
Weight	40 lbs/1000ft (59.53 kg/1000m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.0" (25.4 mm)

ELECTRICAL PROPERTIES

Impedance	50Ω	
Capacitance	26.7 pF/ft (87.59 pF/m)	
Velocity	76%	
DC Resistance	4 Ω/1000ft (13.12 kg/1000m)	
Time Delay	1.34 ns/ft (4.39 ns/m)	
Shield Effectiveness	>-90 dB	
Attenuation (+25°C)	Frequency	dB/100ft (m)
	150 MHz	3.8 (12.47)
	1000 MHz	8.9 (29.19)
	1600 MHz	11.1 (36.42)
	2400 MHz	12.7 (41.67)
5000 MHz	19.6 (64.30)	



For more attenuation values at different frequencies, view our virtual calculator!

All tests performed in accordance with MIL-DTL-17

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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