

GF5-71T

LOW-LOSS HIGH-PERFORMANCE COAX



GIVING YOU OPTIONS

GIGAFLIGHT's 50Ω coaxial cable, GF5-71T, is designed as an identical replacement to Carlisle's 311501 and PIC's S67163. Built with the same materials and matching electricals, GIGAFLIGHT has simplified your design in approvals. The connectors paired with this cable are also identical to the XXX922 series connectors, which means electrical characteristics, strip dimensions and tooling are the same. In addition, the GF5-71T cable is considerably smaller, lighter weight, and lower loss than commonly used RG393 and RG214.

CABLE CONSTRUCTION

1	Center Conductor	15 AWG Solid Silver-plated Copper
2	Dielectric	Low-density PTFE
3	Inner Shield	Silver-plated Copper Flat Strip Braid
4	Interlayer	Composite Foil
5	Outer Shield	36 AWG Silver-plated Copper Braid
6	Jacket	Clear FEP

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	0.229" (5.82mm)
Weight	50 lbs/1000ft (74.41 kg/1000m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.2" (30.48mm)

ELECTRICAL PROPERTIES

Impedance	50Ω	
Capacitance	25.5 pF/ft (83.66 pF/m)	
Velocity	80%	
DC Resistance	2.98 Ω/1000ft (9.78 kg/1000m)	
Time Delay	1.27 ns/ft (4.16 ns/m)	
Shield Effectiveness	>90 dB	
Attenuation (+25°C)	Frequency	dB/100ft (m)
	150 MHz	2.7 (8.86)
	1000 MHz	7.1 (23.29)
	1600 MHz	9.1 (29.86)
	2400 MHz	10.7 (35.11)
5000 MHz	16.1 (52.82)	



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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