

# GF5-56T

LOW-LOSS HIGH-PERFORMANCE COAX



## GIVING YOU OPTIONS

GIGAFLIGHT's 50Ω coaxial cable, GF5-56T, is designed as an identical replacement to Carlisle's 311201 and PIC's S55122. Built with the same materials and matching electricals, GIGAFLIGHT has simplified your design in approvals. The connectors paired with this cable are identical to the XXX122 series connectors, which means electrical characteristics, strip dimensions and tooling are the same.

### CABLE CONSTRUCTION

1	Center Conductor	12 AWG Stranded, 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-TS56T	N Straight	GF5-NS56T
TNC 90°	GF5-TA56T	N 90°	GF5-NA56T
TNC Bulkhead	GF5-TB56T	N Bulkhead	GF5-NB56T
BNC Straight	GF5-BS56T	SMA Straight	GF5-SS56T
BNC 90°	GF5-BA56T	SMA 90°	GF5-SA56T
		SMA Bulkhead	GF5-SB56T

### ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.317" (8.05mm)
Weight	86 lbs/1000 ft (127.98 kg/1000m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	1.59" (40.39mm)

### ELECTRICAL PROPERTIES

Impedance	50Ω	
Capacitance	25.5 pF/ft (83.66 pF/m)	
Velocity	80%	
DC Resistance	1.69 Ω/1000 ft (5.54 Ω/1000m)	
Time Delay	1.27 ns/ft (4.16 ns/m)	
Shield Effectiveness	>90 dB	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	150 MHz	2.1 (6.89)
	1000 MHz	5.6 (18.37)
	1600 MHz	6.7 (21.98)
	2400 MHz	8.9 (29.2)
5000 MHz	12.7 (41.67)	



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).

