

GF7-290D

20 AWG, LOW-LOSS HD VIDEO CABLE



HIGH DEFINITION COAXIAL CABLE

The 75-ohm coaxial cable GF7-290D is an identical alternative to the commonly used V78209 cable, offering equivalent electrical performance, size, weight, connector compatibility, and application versatility. The double-shielded construction, 100% foil and 95% round wire braid shield, provides the necessary shielding effectiveness for vast majority of aerospace applications. The GF7-290D is recommended for SMPTE 259M and is also suitable for SMPTE 292, SMPTE 424, and 12G-SDI video applications.

CABLE CONSTRUCTION

1	Center Conductor	20 AWG Stranded, Silver-plated Copper
2	Dielectric	Foamed, High-temp Fluoropolymer
3	Inner Shield	Composite Foil
4	Outer Shield	38 AWG Tin-plated Copper Braid
5	Outer Jacket	White, Laser-markable ETFE

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.211" (5.36mm)
Weight	31.5lbs/1000ft (46.88kg/1000m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.1" (27.94mm)
SMPTE 292M HD-SDI (max)	210ft (64m)
SMPTE 424M 3G-SDI (max)	140ft (42.67m)

ELECTRICAL PROPERTIES

Impedance	75Ω	
Capacitance	16.5 pF/ft (54.13 pF/m)	
Velocity	80%	
DC Resistance	9.19 Ω/1000 ft (30.15 Ω/1000m)	
Time Delay	1.27 ns/ft (4.16 ns/m)	
Shield Effectiveness	< -90 dB	
Attenuation (+20°C)	Frequency	dB/100ft (m)
	100 MHz	2.9 (9.5)
	400 MHz	6.1 (20.0)
	1450 MHz	12.5 (41.0)
	3000 MHz	19.0 (62.3)

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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