

GF100-26HDMI

HIGH-DEFINITION MULTIMEDIA INTERFACE CABLE



READILY AVAILABLE AEROSPACE GRADE HDMI

The GF100-26HDMI is an aerospace, high-speed 2.0 HDMI cable designed to support 4K p60/59, 12Gbps images up to 15 ft, as well as, 4K p30/24, 6Gbps and 1080p 60Hz up to 50 ft. This cable is backward compatible to all current features pertinent to the HDMI specifications.

GIGAFLIGHT offers custom assemblies and test reports for assemblies built using HDMI, DVI-D, and HD26 Pin D-Subs with a typical lead-time of 2-3 days. See the current HDMI generic drawing templates listed in the table and contact GIGAFLIGHT to discuss your assembly requirements.

CABLE CONSTRUCTION

Five Shielded, Twisted Pairs

1	Conductor	26 AWG Stranded SPCA
	Inner Insulation	Solid, High-temp Fluoropolymer
	Outer Insulation	Foamed, High-temp Fluoropolymer
	Color Code	Pair 1: Blue, White; Pair 2: Red, White Pair 3: Green, White; Pair 4: Brown, White; Pair 5: Yellow, White
	Binder	Clear Mylar
	Drain Wire	26 AWG Tin-plated Copper
	Shield	Composite Foil

Four Discrete Wires

2	Conductor	26 AWG Tin-plated Copper
	Insulation	Solid, High-temp Fluoropolymer
	Color Code	Gray, Orange, Violet, Black
3	Shield 1	Composite Foil
4	Drain Wire	26 AWG Tin-plated Copper
5	Shield 2	38 AWG Tin-plated Copper Braid
6	Jacket	Black Fluoropolymer

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).

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.296" (7.52mm)
Weight	68 lbs/1000ft (101.2 kg/1000m)
Operating Temperature	-55°C to +150°C
Minimum Bend Radius	1.5" (38.1mm)

ELECTRICAL PROPERTIES

Impedance	100Ω		
Capacitance	14.5 pF/ft (47.57 pf/m)		
Velocity of Propagation	75%		
DC Resistance	43.9 Ω/1000ft (144.13 Ω/1000m)		
Shield DCR	13.3 Ω/1000ft (43.64 Ω/1000m)		
Dielectric Voltage Rating	1.5 KV RMS		
	Attenuation (+25°C)	Frequency	dB/5 m
		300 MHz	2.5
		825 MHz	5.0
		4125 MHz	20.0
	5100 MHz	25.0	

HDMI GENERIC ASSEMBLY DRAWING TEMPLATES

GFAHDMI-300-XXX	HDMI Plug to HDMI Plug
GFAHDMI-301-XXX	HDMI Plug to DVI-D Plug
GFAHDMI-302-XXX	HDMI Plug to HD26 pin D-Sub Plug
GFAHDMI-303-XXX	DVI-D Plug to DVI-I F/F Coupler
GFAHDMI-304-XXX	DVI-D Plug Assembly (one side only)
GFAHDMI-305-XXX	DVI-D Plug to DVI-D Plug
GFAHDMI-306-XXX	HDMI Plug Assembly (one side only)

