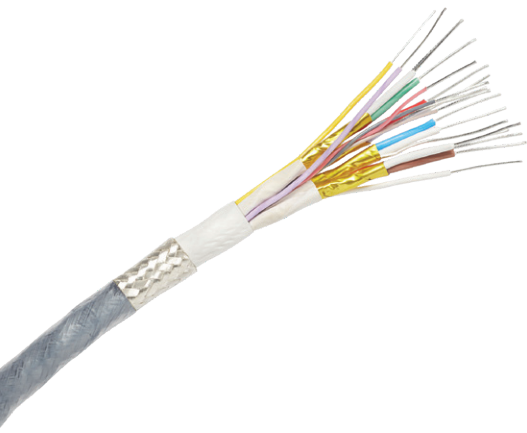


GORE® HDMI Cables (1.4 Cat2 / 2.0 Versions)



Gore's cable bundles support 4K (2160p) video resolution, which is 4 times the clarity of 1080p for a richer viewing experience on cockpit and cabin displays. They provide outstanding signals for high-speed data transmission up to 18 Gb over the aircraft's lifetime (Table 1). Passengers and flight crews can view IFE and critical information on crystal clear, high definition aircraft displays.

Also, Gore's low-weight construction enables a smaller cable diameter that increases flexibility with a tighter bend radius for less complicated routing in tiny spaces of new and existing aircraft (Figure 1).

Typical Applications

- Digital video systems
- Electronic flight bag (EFB)
- Flight management systems
- Glass cockpits
- In-flight entertainment (IFE) systems
- Portable electronic devices
- Weather mapping

Standards Compliance

- ABD0031 (AITM 2.0005); BSS7230; FAR Part 25, Appendix F, Part I: Flammability
- ABD0031 (AITM 3.0005); BSS7239: Toxicity
- ABD0031 (AITM 3.0008B); BSS7238; FAR Part 25, Appendix F, Part V: Smoke Density
- ANSI/NEMA WC 27500: Environmental Testing, Jacket and Marking
- SAE AS4373™: Test Methods for Insulated Electric Wire (Contact Gore for available data)

Table 1: Cable Properties

Electrical

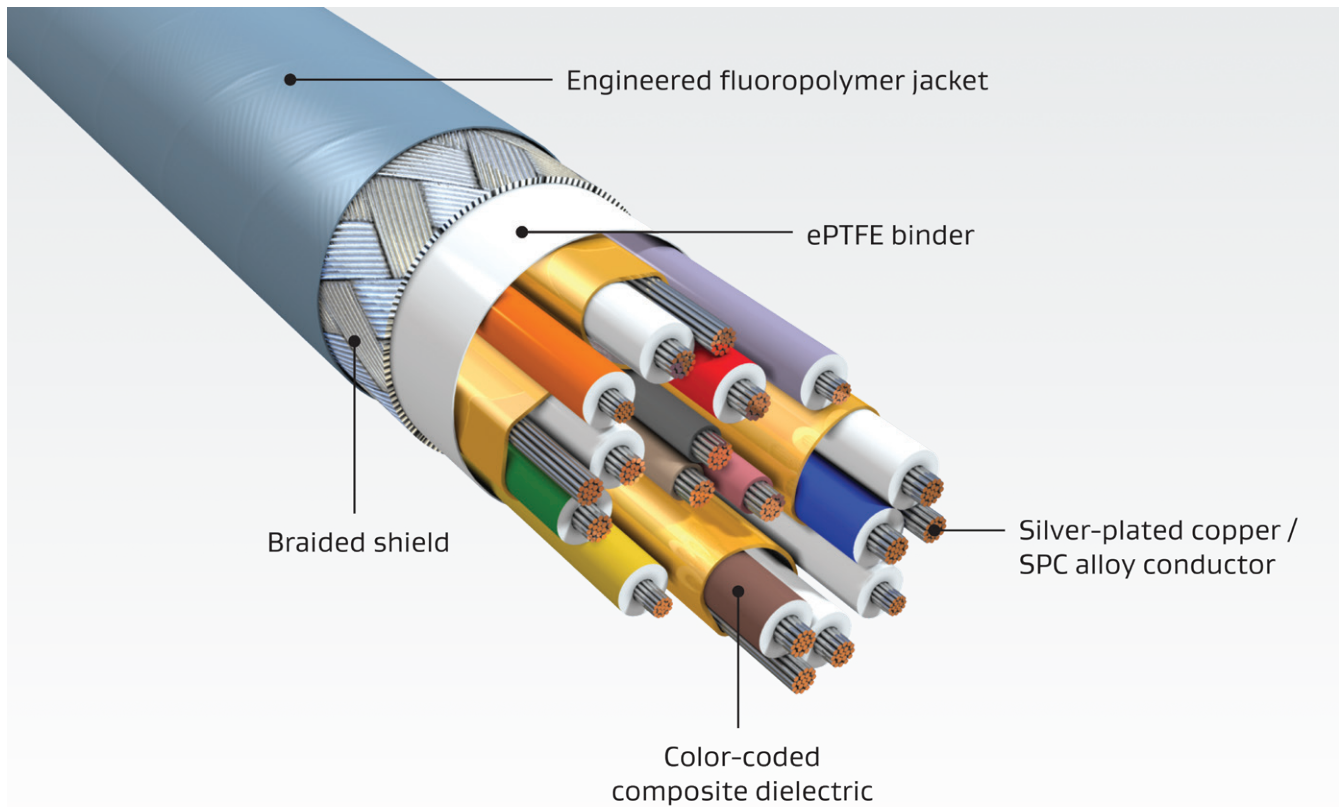
Property	Value
Standard Impedance (Ohms)	100 ± 10
Typical Operating Voltage (V)	< 15
Nominal Velocity of Propagation (%)	80
Nominal Time Delay ns/m (ns/ft)	4.10 (1.25)
Capacitance pF/m (pF/ft)	230.0 (70.0)
Maximum Skew Within Pair ps/m (ps/ft)	15.0 (4.6)
Dielectric Withstanding Voltage (Vrms)	
Conductor-to-Conductor	1500
Conductor-to-Shield	1000

Mechanical / Environmental

Property	Value
Jacket Material	Engineered Fluoropolymer
Jacket Color	Gray
Conductor	Silver-Plated Copper/SPC Alloy
Conductor Color-Coding	High-Speed Pairs: Blue/White, Brown/White, Green/White, Red/White Singles: Orange, Violet, White, Yellow Triad: Gray, Pink, Tan
Dielectric Material	ePTFE/PTFE
Temperature Range (°C)	-65 to +200

GORE® HDMI Cables (1.4 Cat2 / 2.0 Versions)

Figure 1: Low-Weight Cable Bundle



Cable Preparation

Laser stripping is the ideal method to prep GORE® HDMI Cables. Alternatively, Gore recommends using thermal or sharp mechanical strippers. Also, a unique method is to make a short, horizontal slit in the jacket material, peel it back to allow for contact termination and return the jacket to its original position for a neat closure (Figure 2). For more information regarding cable preparation, please contact a Gore representative.

Figure 2: Peel-Back Method

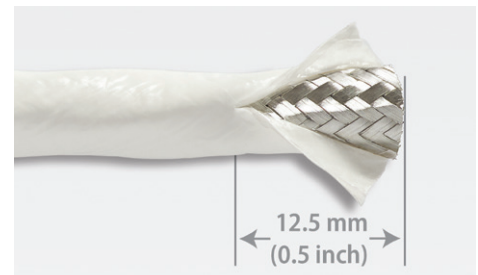


Table 2: Cable Characteristics

Gore Part Number	AWG Size (Stranding)	Nominal Outer Diameter mm (in)	Minimum Bend Radius mm (in)	Nominal Weight kg/km (lb/1000 ft)	Typical Insertion Loss dB/5 m (16.4 ft)		
					1 GHz	2 GHz	3 GHz
RCN9121	Data/Drains/Discrete Pairs: 26 (19/38) Capacitance-Controlled Singles: 28 (19/40)	6.6 (0.26)	13.0 (0.51)	77.5 (52.0)	4.9	8.5	12.0

Contact-Connector Options

GORE® HDMI Cables are designed to fit a variety of high-speed aerospace and defense connector systems and backshells such as ARINC and MIL-STD-38999 with size 8 contacts. Please contact the specific manufacturer such as Amphenol® and Glenair® for exact part numbers, tooling information, and termination instructions.

Ordering Information

GORE® HDMI Cables are available in a standard size (Table 2). Visit gore.com/cable-distributors for the list of distributors. In addition, visit gore.com/hdrsamplerflyer regarding Gore’s full inventory of sample products and lead times.

For more information or to discuss specific characteristic limits and application needs, please contact a Gore representative.

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