

**GF7-303D**

26 AWG, LOW-LOSS HD VIDEO CABLE


**HIGH-DEFINITION VIDEO CABLE**

The GF7-303D is a form, fit, and function identical alternative for commonly used V76261. Meaning the electrical performance, size/weight, connector usage, and the applications are the same. The GF7-303D is not only recommended for use in SMPTE 259M, but also can be used in the SMPTE 292 and SMTPE 424 video applications.

This cable is currently available in two jacket colors, standard Laser Markable White and Flight Test Orange.

**CABLE CONSTRUCTION**

|   |                  |                                       |
|---|------------------|---------------------------------------|
| 1 | Center Conductor | 26 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 | Jacket           | White, Laser-markable Tefzel          |

**ENVIRONMENTAL & MECHANICAL PROPERTIES**

|                            |                              |  |
|----------------------------|------------------------------|--|
| Outer Diameter             | 0.12" (3.05mm)               |  |
| Weight                     | 11lbs/1000ft (16.37kg/1000m) |  |
| Operating Temperature      | -55°C to +150°C              |  |
| Minimum Bend Radius        | 0.64" (16.26mm)              |  |
| Max Len. SMPTE 292M HD-SDI | 120ft (36.6m)                |  |
| Max Len. SMPTE 424M 3G-SDI | 80 ft (24.4m)                |  |

**JACKET COLORS & APPLICATIONS**

|            |        |                  |
|------------|--------|------------------|
| GF7-303D   | White  | Laser Markable   |
| GF7-303D-3 | Orange | Flight Test Data |

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).

**ELECTRICAL PROPERTIES**

|                      |                                 |               |
|----------------------|---------------------------------|---------------|
| Impedance            | 75Ω                             |               |
| Capacitance          | 16 pF/ft (52.5pF/m)             |               |
| Velocity             | 80%                             |               |
| DC Resistance        | 34.5 Ω/1000 ft (113.19 Ω/1000m) |               |
| Time Delay           | 1.27 ns/ft (4.16 ns/m)          |               |
| Shield Effectiveness | >90 dB                          |               |
| Attenuation (+25°C)  | Frequency                       | dB/100 ft (m) |
|                      | 135 MHz                         | 5.8 (19.03)   |
|                      | 180 MHz                         | 6.7 (21.98)   |
|                      | 270 MHz                         | 8.3 (27.23)   |
|                      | 360 MHz                         | 9.7 (31.82)   |
|                      | 400 MHz                         | 10.2 (33.47)  |
|                      | 750 MHz                         | 14.2 (46.59)  |
| 1500 MHz             | 20.6 (67.59)                    |               |
| 3000 MHz             | 30.3 (99.41)                    |               |

**CONNECTORS**

| STYLE                     | P/N          |
|---------------------------|--------------|
| 75Ω M39029 Size 8 Pin     | GF7-8P303HD  |
| 75Ω M39029 Size 8 Socket  | GF7-8S303HD  |
| 75Ω M39029 Size 12 Pin    | GF7-12P303HD |
| 75Ω M39029 Size 12 Socket | GF7-12S303HD |
| BNC Straight Plug         | GF7-BS303D   |
| MCX Right Angle Plug      | GF7-MA303D   |

