



## HIGH DEFINITION TRIAXIAL CABLE

The 75-ohm Triaxial cable GF7-TX303D is a form, fit, and function identical alternative for commonly used Triaxial cable L7626TX. Meaning the electrical performance, size/weight, connector usage and the applications are the same. This cable is typically used in cabin entertainment video applications, where low levels of EMI cannot be tolerated. In most applications, the internal coax is terminated to the same connectors as GF7-303D and outer Triaxial shield tied to a specified ground point.

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 | Inner Jacket     | White Tefzel                          |
| 6 | Outer Shield     | 38 AWG Tin-plated Copper Braid        |
| 7 | Outer Jacket     | White, Laser-markable Tefzel          |

### ENVIRONMENTAL & MECHANICAL PROPERTIES

|                            |                              |
|----------------------------|------------------------------|
| Outer Diameter             | 0.16" (4.06mm)               |
| Weight                     | 22lbs/1000ft (32.74kg/1000m) |
| Operating Temperature      | -55°C to +150°C              |
| Minimum Bend Radius        | 0.8" (20.32mm)               |
| Max Len. SMPTE 292M HD-SDI | 120ft (36.6m)                |
| Max Len. SMPTE 424M 3G-SDI | 80ft (24.4m)                 |

### JACKET COLORS & APPLICATIONS

|              |        |                  |
|--------------|--------|------------------|
| GF7-TX303D   | White  | Laser Markable   |
| GF7-TX303D-3 | Orange | Flight Test Data |

### ELECTRICAL PROPERTIES

|                      |                                 |              |
|----------------------|---------------------------------|--------------|
| Impedance            | 75Ω                             |              |
| Capacitance          | 16 pF/ft (52.49 pF/m)           |              |
| Velocity             | 80%                             |              |
| DC Resistance        | 38.5 Ω/1000 ft (126.31 Ω/1000m) |              |
| Time Delay           | 1.27 ns/ft (4.16 ns/m)          |              |
| Shield Effectiveness | >90 dB                          |              |
| Attenuation (+25°C)  | Frequency                       | dB/100ft (m) |
|                      | 100 MHz                         | 5.5 (18)     |
|                      | 400 MHz                         | 11.2 (36.7)  |
|                      | 1450 MHz                        | 21.6 (70.9)  |
|                      | 3000 MHz                        | 31.6 (103.7) |

### 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 |
| 3 Lug TRB Straight Plug   | GFSC-2009    |
| BNC Straight Plug         | GF7-BS303D   |

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).

