

GF77-241553

24 AWG, LASER MARKABLE 1553 DATA BUS



WHITE JACKETED 1553 DATA BUS

The GF77-241553 is designed to meet the electrical requirements of M17/176-00002, commonly referred to as 1553 Data Bus. The main difference between the GF77-241553 and the M17/176 is the white, laser-markable jacket of the GF77-241553. In the age of laser marking equipment, our design team feels that this switch from a blue tint jacket to a laser-markable jacket will become the standard. GIGAFLIGHT's GF77-241553 is a suitable alternative to PIC's G771553.

The GF77-241553 is currently available in two jacket colors, standard Laser Markable White and Flight Test Orange.

JACKET COLORS & APPLICATIONS

GF77-241553	White	Laser Markable
GF77-241553-3	Orange	Flight Test Data

ENVIRONMENTAL & MECHANICAL PROPERTIES

Outer Diameter	0.125" (3.175 mm)
Weight	14 lbs/1000 ft (20.83 kg/1000 m)
Operating Temperature	-55°C to +200°C
Minimum Bend Radius	0.65" (16.51 mm)

CABLE CONSTRUCTION

1	Conductors	24 AWG Stranded Silver-plated HSCA
2	Inner Insulation	Solid, High-temp Fluoropolymer
	Color Code	White, Blue
3	Filler	FEP
4	Outer Shield	38 AWG Silver-plated Copper Braid
5	Jacket	White, Laser-markable Tefzel

ELECTRICAL PROPERTIES

Impedance	77Ω	
Capacitance	24 pF/ft (78.7 pF/m)	
Velocity of Propagation	68%	
DC Resistance (max)	28.4 Ω/1000 ft (93.2 Ω/1000 m)	
Dielectric Voltage Rating	1.5 kV RMS	
Attenuation (+25°C)	Frequency	dB/100 ft (m)
	1 MHz	1.4 (4.6)

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).

