

PRODUCT BULLETIN

CABLE CONSTRUCTION

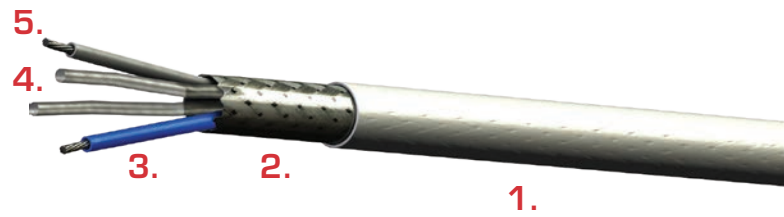
1. ETFE Jacket (White) Laser Markable
2. Silver-Plated Copper Alloy Shield
3. PTFE Insulation
4. Fillers
5. Silver-Plated High-Strength Copper Alloy Conductors

COLOR CODES

White, Blue

PIC's G771553 is a laser markable version of Military Standard 1553B data bus cable that saves weight and time versus using traditional 1553B cable and labels. Most 1553 data bus applications require identification at regular intervals (e.g. every 2 feet); using traditional 1553B cable and labels requires an investment in label material and installation labor while adding significant weight to the final cable. In addition, G771553 is 5% lighter weight than most standard 1553B cables, saving 1 lb. for every 1000 feet of cable used.

G771553 is a 77 ohm twinaxial cable constructed of high quality materials that meet or exceed the requirements for 1553B data bus cable. It is Skydrol resistant, RoHS compliant and meets the FAA flammability requirements of FAR Part 23 and 25, Appendix F; complies with MIL-C-17 as applicable.



PHYSICAL DATA

- Conductor 24 AWG Stranded SPCA
- Shield Coverage 90% Min.
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.125 (3.175)
- Minimum Bend Radius: in (mm) 0.65 (16.51)
- Weight: lbs/100 ft (kg/100 m) 1.7 (2.5)

ELECTRICAL DATA

- Impedance: ohms 77
- Capacitance: pF/ft (m) 24.0 (78.7)
- Velocity of Propagation: % 68.0
- Dielectric Voltage Rating (kV RMS) 1.5
- DC Resistance: ohms/1000 ft (m) Max 28.4 (93.2)
- Attenuation: dB/100 ft (m) @ 1 MHz Max 1.4 (4.6)

All values nominal unless otherwise noted

M17/176