

PIC E10222

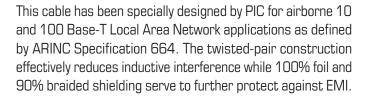
10/100 BASE-T 1-PAIR (2-CONDUCTOR) CABLE

CABLE CONSTRUCTION

- 1. ETFE Jacket (White) Laser Markable
- 2. Tin-Plated Copper Braided Shield
- 3. Foil Shield
- 4. Foamed Fluoropolymer Insulation
- 5. Tin-Plated Copper Conductors



Blue, White



Data transmission aboard aircraft faces more severe environmental and EMI situations than conventional LAN systems in commercial buildings, hence special measures have been taken to preserve technical performance.

Each conductor is surrounded by a foamed fluoropolymer dielectric having a high velocity of propagation which permits smaller overall diameter and weight while retaining performance and required operating parameters. Tin-plated copper conductors and shielding assure uniform conductivity with excellent solderability. An ETFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E10222 exceeds ANSI/TIA-568-C.2 CAT 5e Channel Requirements. It is Skydrol resistant, RoHS compliant and passes the FAA flammability requirements of FAR Part 23 and 25, Appendix F. Test results are available upon request.



PHYSICAL DATA

 Conductors 	22 AWG Stranded TPC
Shield Coverage	100% (Foil), 90% (Braid)
Operating Temperature	-50° to +150°C
• Outer Diameter: in (mm)	0.19 (4.80)
• Minimum Bend Radius: in (mm)	0.95 (24.13)
• Weight: lbs/100 ft (kg/100 m)	2.3 (3.4)

ELECTRICAL DATA

• Impedance: ohms		100
• Capacitance: pF/ft (m)		13.0 (42.7)
 Velocity of Propagation: % 		80.0
Dielectric Voltage Rating (kV RMS)		0.9
DC Resistance: ohms/1000 ft (m) Max		15.8 (51.8)
• Max Distance*: ft (m)		362 (110)
Attenuation: Nom / Max	dB/100 ft	(dB/100 m)
@10 MHz@100 MHz	1.5 / 1.8 5.4 / 6.5	(4.9 / 5.9) (17.7 / 21.3)

All values nominal unless otherwise noted
*Note: The max distance is based on maximum
channel insertion loss per ANSI/TIA-568-C.2







