PIC DataMATES®

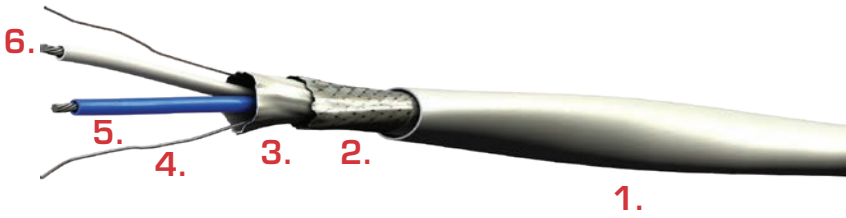
PRODUCT BULLETIN

PIC E13226

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

CABLE CONSTRUCTION

1. Fluoropolymer Jacket (White) Laser Markable
2. Silver-Plated Copper Braided Shield
3. Fluoropolymer Tape Binder
4. Fluoropolymer Fillers
5. Solid Fluoropolymer Insulation
6. Silver-Plated High Strength Copper Alloy Conductors



COLOR CODES

Pair #1 - White/Blue

PIC's DataMATES Ethernet cables incorporate innovative design features that provide maximum electrical performance in a small, light weight and flexible package. Using 26 AWG silver-plated, high strength copper alloy conductors and a laser markable fluoropolymer jacket, PIC's E13226 delivers CAT 5e performance up to 224 ft with up to 45% less weight and up to 50% more flexibility.

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. Silver-plated copper conductors and shielding assure uniform conductivity with excellent solderability. A fluoropolymer jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E13226 is ideal for harsh environment applications that demand high reliability, maximum flexibility and light weight, such as cabin management, in-flight entertainment, internet backbones. It is Skydrol resistant, RoHS compliant and passes the FAA flammability requirements of FAR Part 23 and 25, Appendix F.

PHYSICAL DATA

• Conductors	26 AWG (19/38) Stranded SPCA
• Shield Coverage	80% (Braid)
• Operating Temperature	-55° to +200°C
• Outer Diameter: in (mm)	0.13 (3.40)
• Minimum Bend Radius: in (mm)	0.40 (10.16)
• Weight: lbs/100 ft (kg/100 m)	1.7 (2.5)

ELECTRICAL DATA

• Impedance: ohms		100
• Capacitance: pF/ft (m)		14.5 (47.6)
• Velocity of Propagation: %		70.0
• Dielectric Voltage Rating (kV RMS)		1.5
• DC Resistance: ohms/1000 ft (m) Max		44.8 (147.0)
• Max Distance*: ft (m)		224 (68)
• Attenuation: Nom / Max	dB/100 ft	(dB/100 m)
• @10 MHz	2.7 / 3.1	(8.9 / 10.2)
• @100 MHz	8.7 / 10.5	(28.5 / 34.4)

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