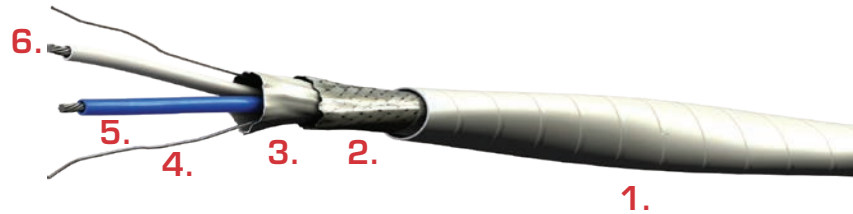


## CABLE CONSTRUCTION

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



## COLOR CODES

Blue, White

PIC's DataMATES Ethernet cables incorporate innovative design features that provide maximum electrical performance in a small, light weight and flexible package. Using 24 AWG silver-plated, high strength copper alloy conductors and a laser markable PTFE tape jacket, PIC's E13224 delivers CAT 5e channel performance up to 328 ft (100 m) 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 PTFE jacket which is laser-markable, passed EN3475-503 Scrape Abrasion testing and is also very flexible for ease of installation.

E13224 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 24 AWG (19/36) Stranded SPCA
- Shield Coverage 80% (Braid)
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.16 (4.06)
- Minimum Bend Radius: in (mm) 1.25 (31.75)
- Weight: lbs/100 ft (kg/100 m) 2.2 (3.3)

## 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 28.4 (93.2)
- Max Distance: ft (m) 328 (100)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
  - @10 MHz 1.8 / 2.1 (5.9 / 6.9)
  - @100 MHz 5.8 / 7.0 (19.0 / 23.0)

*All values nominal unless otherwise noted  
 Note: The max distance is based on maximum channel insertion loss per ISO 11801, Class F*