

CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Silver-Plated Copper Braided Shield
3. Aluminum/Polyester Foil Shield
4. Silver-Plated High Strength Copper Alloy Drain Wire
5. Foamed Fluoropolymer Insulation
6. Silver-Plated Copper Conductors

COLOR CODES

Pair #1 - White, Blue

This cable incorporates innovative design features that provide maximum electrical performance in a small, lightweight, flexible package.

This cable is manufactured with a white ETFE jacket that is laser-markable and also very rugged, passing the abrasion testing of EN3475-503. The data pairs are manufactured using a high temp Fluoropolymer. The data pairs will perform exceptionally for low skew video applications. 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.

E5E2224-D 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.

PIC  **DataMATES® PLUS**



PHYSICAL DATA

- Conductors 24 AWG (19/36) Stranded SPC
- Shield Coverage: 90% (Braid)
- Operating Temperature: -55° to +200°C
- Outer Diameter: in (mm) 0.16 (4.06)
- Minimum Bend Radius: in (mm) 0.08 (2.03)
- Weight: lbs/100 ft (kg/100 m) 2.0 (3.0)

ELECTRICAL DATA

Data pair

- Impedance: ohms 100
- Capacitance: pF/ft (m) 13.0 (42.7)
- Velocity of Propagation: % 80.0
- Dielectric Voltage Rating (kV, RMS) Max 0.9
- DC Resistance: ohms/1000 ft (m) Max 28.4 (93.2)
- Intra-Pair Skew pS/ft (m) Max 7.0 (22.9)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @10 MHz 2.0 / 2.3 (6.6 / 7.5)
 - @100 MHz 6.0 / 7.7 (19.7 / 25.3)

All values nominal unless otherwise noted