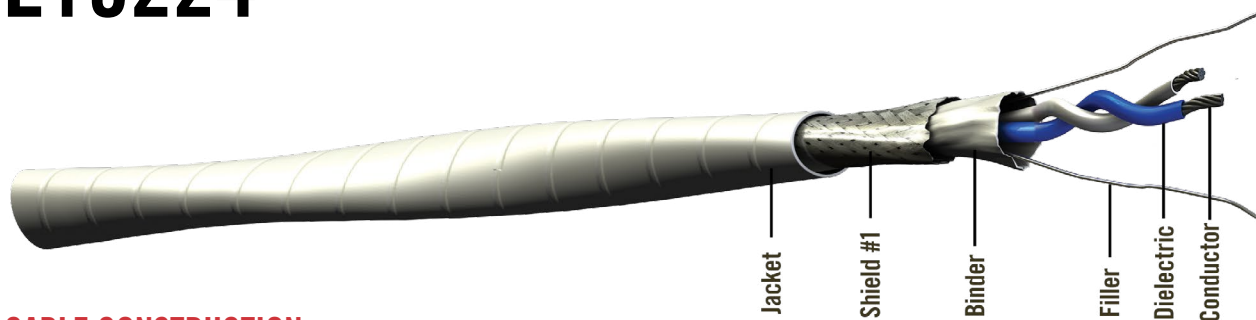


# E13224



## CABLE CONSTRUCTION

**Conductors:** Silver-Plated High Strength Copper Alloy  
**Dielectric:** PFA  
**Binder:** PTFE Tape  
**Fillers:** Fluoropolymer

**Shield #1:** Silver-Plated Copper Braid  
**Jacket:** PTFE, White (Laser Markable)

## COLOR CODES

**Pair #1:** White/Blue

The E13224 is a 1 pair, 10/100 Base-T CAT5e cable (exceeding ANSI/TIA-568-C.2 CAT 5e Channel Requirements) with a smaller overall diameter and weight while retaining performance and required operating parameters up to 328 ft. The twisted-pair construction (two separate pairs) of silver-plated copper conductors assures uniform conductivity with excellent solderability. Its 80% braided shielding provide mechanical strength and EMI protection yet maintain weight and flexibility. A durable PTFE laser-markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E13224 is suitable for airborne 10/100 Base-T CAT5e Local Area Network applications such as cabin management systems (CMS), in-flight entertainment (IFE), and Ethernet backbones.

## PHYSICAL DATA

**Conductor:** 24 AWG Stranded SPHSCA  
**Shield Coverage:** 80% (Braid)  
**Temperature Range:** -55 to +200°C  
**Outer Diameter:** in (mm) 0.168 (4.27)  
**Minimum Bend Radius:** in (mm) 0.85 (21.59)  
**Weight:** lbs/100 ft (kg/100 m) 2.2 (3.3)

## ELECTRICAL DATA

**Impedance:** 100 ohms  
**Capacitance:** pF/ft (m) 14.5 (47.6)  
**Velocity of Propagation:** 70%  
**Dielectric Voltage Rating:** (kV, RMS) 1.5  
**DC Resistance:** ohms/1000 ft (m) 28.4 (93.2)  
**Max Distance\*:** ft (m) 328 (100)

## ENVIRONMENTAL DATA

**Skydrol Resistant:** SAE AS4373E, Method 601  
**RoHS Compliant:** RoHS Directive 2002/95/EC  
**Flame / Smoke Requirements:** FAR Part 25.869 (a) App. F, Part 1, (a)(3)  
**Berry Specialty Metals Compliance:** Complies with DFARS 252.225-7014, Alt 1

## ATTENUATION DATA

Frequency	Nom / Max dB/100 ft	Nom / Max (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*

E13224 CAT 5E ETHERNET CABLE

