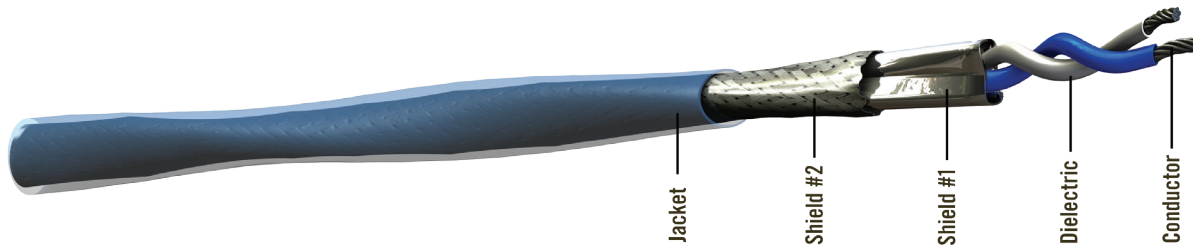


# E10224



## CABLE CONSTRUCTION

**Conductors:** Silver-Plated Copper

**Dielectric:** FEP

**Shield #1:** Aluminum/Polyester Foil

**Shield #2:** Silver-Plated Copper Braid

**Jacket:** FEP, Translucent Blue

## COLOR CODES

**Pair #1:** White/Blue

The E10224 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. The twisted-pair construction of silver-plated copper alloy conductors assures uniform conductivity with excellent solderability. The 100% foil and 90% braided shielding provide mechanical strength and EMI protection and maintain weight and flexibility. A durable FEP jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E10224 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

<b>Conductor:</b>	24 AWG Stranded SPC
<b>Shield Coverage:</b>	100% (Foil), 90% (Braid)
<b>Temperature Range:</b>	-55 to +200°C
<b>Outer Diameter:</b> in (mm)	0.163 (4.14)
<b>Minimum Bend Radius:</b> in (mm)	0.9 (22.86)
<b>Weight:</b> lbs/100 ft (kg/100 m)	2.18 (3.2)

## ELECTRICAL DATA

<b>Impedance:</b>	100 ohms
<b>Capacitance:</b> pF/ft (m)	13 (42.7)
<b>Velocity of Propagation:</b>	80%
<b>Dielectric Voltage Rating:</b> (kV, RMS)	0.9
<b>DC Resistance:</b> ohms/1000 ft (m)	28.5 (93.5)
<b>Max Distance*:</b> 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*

**E10224 CAT 5E ETHERNET CABLE**

