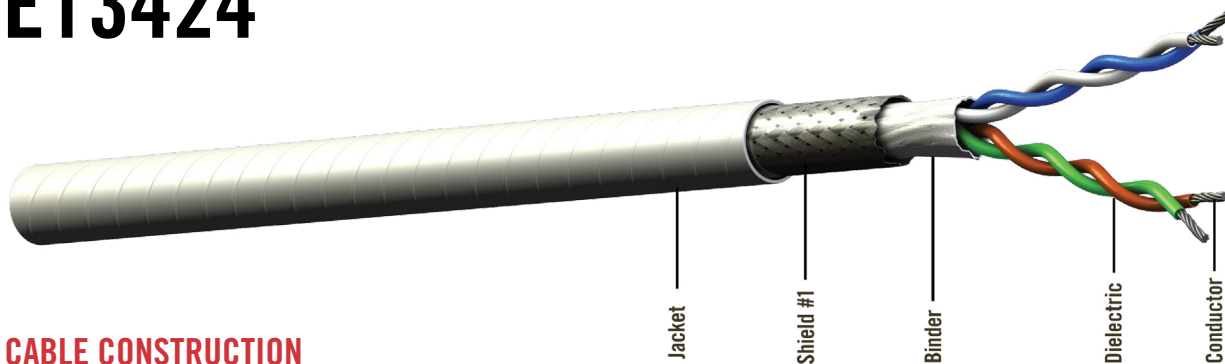


# E13424



## CABLE CONSTRUCTION

**Conductors:** Silver-Plated High Strength Copper Alloy  
**Dielectric:** PFA  
**Binder:** PTFE Tape  
**Shield #1:** Silver-Plated Copper Braid

**Jacket:** PTFE, White (Laser Markable)

## COLOR CODES

**Pair #1:** White/Blue  
**Pair #2:** Orange/Green

The E13424 is a 2 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 268 ft. The E13424's twisted-pair construction (two separate pairs) of silver-plated copper conductors is surrounded by a PFA dielectric that assures uniform conductivity with excellent solderability. The 80% braided shielding assure uniform conductivity with excellent solderability, further protecting against EMI. A laser-markable PTFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E13424 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) 0.224 (5.69)  
**Minimum Bend Radius:** in (mm) 0.75 (19.05)  
**Weight:** lbs/100 ft (kg/100 m) 2.9 (4.3)

## 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) 268 (82)

## 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	2.2/2.6	(7.2/8.5)
@100 MHz	6.0/7.2	(19.7/23.6)

*All values nominal, unless otherwise noted*

E13424 CAT 5E ETHERNET CABLE

# CONTACTS/CONNECTORS FOR PART # E13424

PART #	CONTACT TYPE	TOOL PART #
190007	Shielded CAT 5e, Plug w/Strain Relief Sleeve (568A)	110340 - RJ45 Crimp Tool
190015	Shielded CAT 5e, Plug w/Strain Relief Sleeve (ISDN)	110340 - RJ45 Crimp Tool
110362	Shielded CAT 5e/CAT6, Plug w/Strain Relief Sleeve	110288 - RJ45 Crimp Tool 190048 - Insulation Compression Tool
190061	Shielded CAT 5e, Plug w/Protective Boot (568A)	110340 - RJ45 Crimp Tool
190062	Shielded CAT 5e, Plug w/Protective Boot (ISDN)	110340 - RJ45 Crimp Tool
110788	Shielded CAT 6, Plug w/ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	110288 - RJ45 Crimp Tool 190048 - Insulation Compression Tool
110939	Shielded CAT 6a, Jack w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers