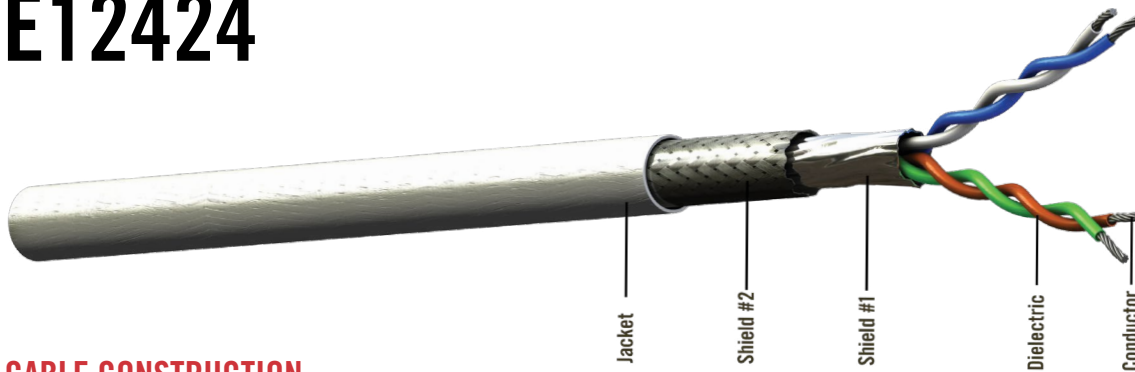


# E12424



## CABLE CONSTRUCTION

**Conductors:** Tin-Plated Copper

**Dielectric:** FEP

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

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

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

## COLOR CODES

**Pair #1:** White/Blue

**Pair #2:** Orange/Green

The E12424 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. The E12424's twisted-pair construction (two separate pairs) of tin-plated copper conductors is surrounded by a foamed fluoropolymer dielectric that assures uniform conductivity with excellent solderability. The 100% foil and 85% braided shielding assure uniform conductivity with excellent solderability, further protecting against EMI. An ETFE laser-markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E12424 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 TPC
<b>Shield Coverage:</b>	100% (Foil), 85% (Braid)
<b>Temperature Range:</b>	-55 to +150°C
<b>Outer Diameter:</b> in (mm)	0.208 (5.28)
<b>Minimum Bend Radius:</b> in (mm)	1 (25.4)
<b>Weight:</b> lbs/100 ft (kg/100 m)	2.3 (3.4)

## 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)	257 (78)

## 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	2.3/2.7	(7.5/8.9)
@100 MHz	6.2/7.5	(20.3/24.6)

*All values nominal, unless otherwise noted*

**E12424 CAT 5E ETHERNET CABLE**

# CONTACTS/CONNECTORS FOR PART # E12424

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