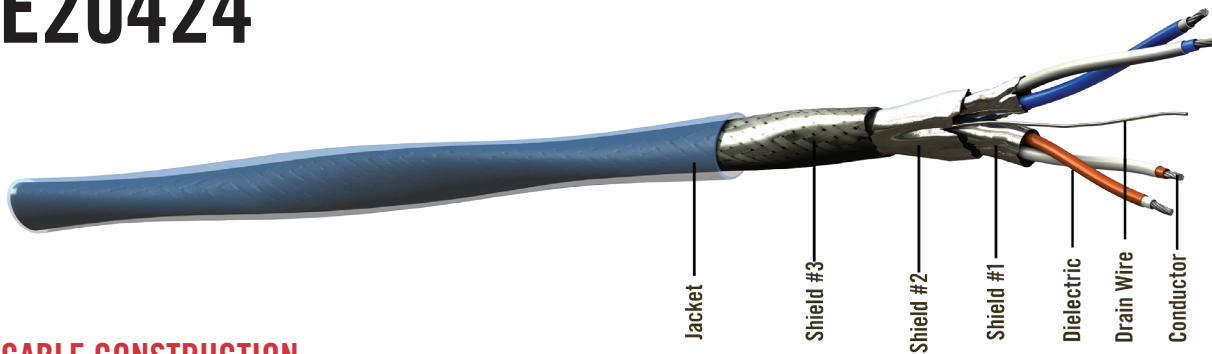


E20424



CABLE CONSTRUCTION

Conductors: Silver-Plated Copper

Dielectric: Dual Layer FEP

Shield #1: Aluminum/Polyester Foil (each pair)

Drain Wire: Tin-Plated Copper

Shield #2: Aluminum/Polyester

Shield #3: Silver-Plated Copper Braid

Jacket: FEP, Translucent Blue

COLOR CODES

Pair #1: White w/Blue Inner, Blue w/White Inner

Pair #2: Orange w/White Inner, White w/Orange Inner

The E20424 is a 2 pair, 10/100 Base-T CAT5e cable specially designed for airborne applications as defined by ARINC Specification 664. The overall design of E20424 allows a smaller overall diameter and weight while retaining performance and required operating parameters. The E20424's twisted-pair construction (two separate pairs) of silver-plated copper conductors is surrounded by dual-layer foamed/solid fluoropolymer dielectric that assures uniform conductivity with excellent solderability. Removal of the outer foamed layer reveals the inner solid insulation of a diameter compatible with conventional RJ45 connector terminations.

The 100% foil (for each pair, as well as the entire cable) and 90% braided shielding assure uniform conductivity with excellent solderability, further protecting against EMI*. An FEP jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

*The individual pair foil shields are also isolated from the overall foil shield for additional protection.

PHYSICAL DATA

Conductor:	24 AWG Stranded SPC
Shield Coverage:	100% (Foil), 90% (Braid)
Temperature Range:	-55 to +200°C
Outer Diameter: in (mm)	0.265 (6.73)
Minimum Bend Radius: in (mm)	1.3 (33.02)
Weight: lbs/100 ft (kg/100 m)	4.18 (6.2)

ELECTRICAL DATA

Impedance:	100 ohms
Capacitance: pF/ft (m)	13.4 (44)
Velocity of Propagation:	76%
Dielectric Voltage Rating: (kV, RMS)	1.5
DC Resistance: ohms/1000 ft (m)	28.5 (93.5)
Max Distance: ft (m)	296 (90)

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	2.2/2.4	(7.2/7.9)
@100 MHz	7.6/8.0	(24.9/26.2)

All values nominal, unless otherwise noted

**E20424
CAT 5E ETHERNET CABLE**

CONTACTS/CONNECTORS FOR PART # E20424

PART #	CONTACT TYPE	TOOL PART #
110787	Shielded CAT 6, Plug w/ATUM Strain Relief	110288 - RJ45 Crimp Tool
110303	Shielded CAT 6, Plug w/Strain Relief Sleeve	110288 - RJ45 Crimp Tool
110339	Shielded CAT 6, Plug w/Protective Boot	110288 - RJ45 Crimp Tool
110361	Shielded CAT 6 Plug w/ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	110288 - RJ45 Crimp Tool
110912	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110900	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief (568B)	110701 - Soft Jaw Clamping Pliers
110973	Shielded CAT 6a, Plug w/Clamp Nut Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110975	Shielded CAT 6a, Plug w/Clamp Nut Strain Relief (568B)	110701 - Soft Jaw Clamping Pliers
110937	Shielded CAT 6a, Jack w/ATUM Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110938	Shielded CAT 6a, Jack w/ATUM Strain Relief (568B)	110701 - Soft Jaw Clamping Pliers