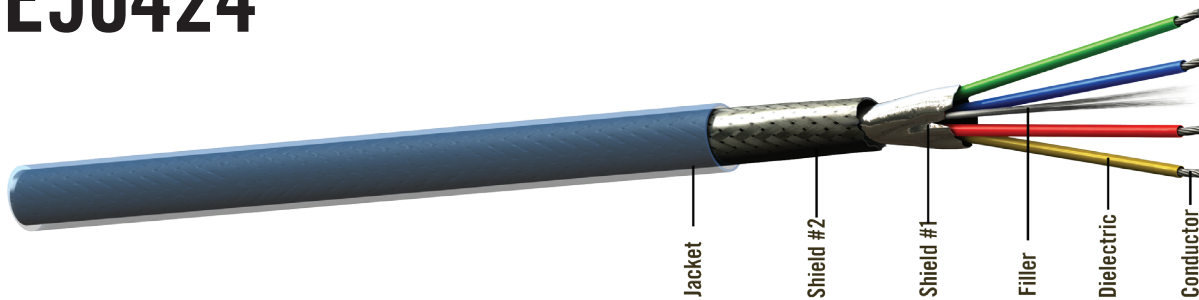


E50424



CABLE CONSTRUCTION

Conductors: Silver-Plated Copper
Dielectric: PTFE
Filler: Yarn
Shield #1: Aluminum/Kapton Foil

Shield #2: Silver-Plated Copper Braid
Jacket: FEP, Translucent Blue

COLOR CODES

Pair #1: Red/Blue
Pair #2: Yellow/Green

The E50424 is 100 Base-T Quadrax cable specially designed for airborne applications as defined by ARINC Specification 664. The overall design of E50424 allows a smaller overall diameter and weight while exceeding Category 5e requirements. The E50424's construction of silver-plated copper conductors is surrounded by fluoropolymer dielectric insulation assuring uniform conductivity with excellent solderability. E50424 is designed to be terminated with ARINC 600 and D38999 quadrax contacts and is compatible with any contact designed for Draca Fileca cable P/N F4704.

The 100% foil and 85% braided shielding provide double shielding to preserve technical performance. A fluoropolymer jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

PHYSICAL DATA

Conductor: 24 AWG Stranded SPC
Shield Coverage: 100% (Foil), 85% (Braid)
Temperature Range: -55 to +200°C
Outer Diameter: in (mm) 0.17 (4.32)
Minimum Bend Radius: in (mm) 1 (25.4)
Weight: lbs/100 ft (kg/100 m) 2.7 (4.0)

ELECTRICAL DATA

Impedance: 100 ohms
Capacitance: pF/ft (m) 13 (42.7)
Velocity of Propagation: 69.5%
Dielectric Voltage Rating: (kV, RMS) 1.5
DC Resistance: ohms/1000 ft (m) 24.2 (79.4)
Max Distance: ft (m) 236 (72)

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	2.2/3.0	(7.2/9.8)
@100 MHz	7.1/8.2	(23.3/26.9)

All values nominal, unless otherwise noted

E50424 CAT 5E ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E50424

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
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
110939	Shielded CAT 6a, Jack w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers