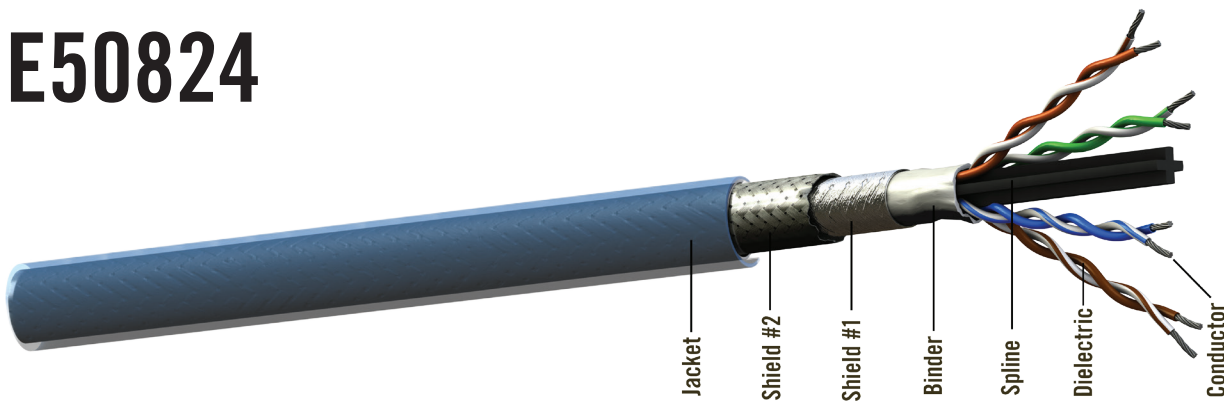


E50824



CABLE CONSTRUCTION

Conductors: Silver-Plated Copper
Dielectric: FEP
Spline: Fluoropolymer
Binder: PTFE Tape

Shield #1: Aluminum/Polyester Foil
Shield #2: Silver-Plated Copper Round Braid
Jacket: FEP, Translucent Blue

COLOR CODES

Pair #1: Blue, White Stripe/Blue
Pair #2: Orange, White Stripe/Orange

Pair #3: Green, White Stripe/Green
Pair #4: Brown, White Stripe/Brown

The E50824 is a shielded 4-Pair, 1000 Base-T Cat 5e Ethernet cable (exceeding ANSI/TIA-568-C.2 CAT 5e Channel Requirements) that incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package. The E50824's twisted-pair construction (four separate pairs) of silver-plated copper conductors is surrounded by fluoropolymer dielectric that assures uniform conductivity with excellent solderability. The 100% foil and 90% braided shielding serve to further protect against EMI. A fluoropolymer jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

Note: This product is also available with a black fluoropolymer jacket under product number G50824.

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) 1.4 (35.56)
Weight: lbs/100 ft (kg/100 m) 5 (7.4)

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) 28.5 (93.5)
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	6.8/8.2	(22.3/26.9)

All values nominal, unless otherwise noted

E50824 CAT 5E ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E50824

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
110384	Shielded CAT 6, Plug, Blade Patch	N/A