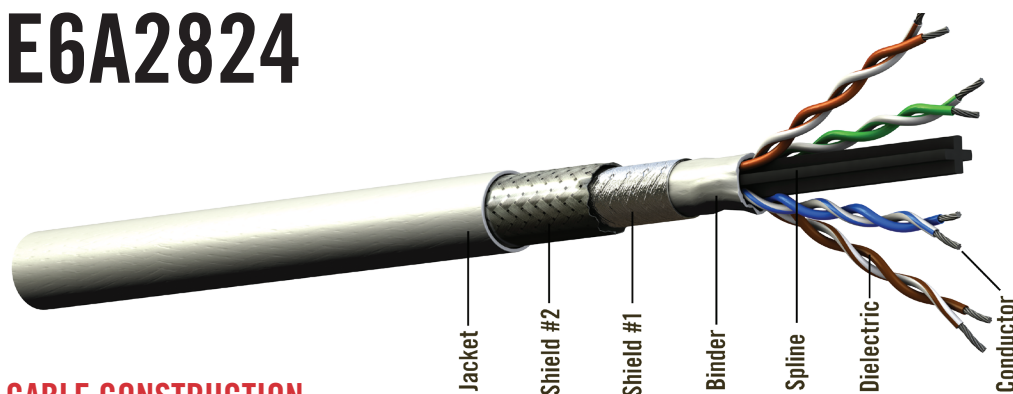


E6A2824



CABLE CONSTRUCTION

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

Shield #1: Aluminum/Polyester/Aluminum Foil
Shield #2: Tin-Plated Copper Braid
Jacket: ETFE, White (Laser Markable)

COLOR CODES

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

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

The E6A2824 is a 4-Pair, 10G Base-T Cat 6a ethernet cable (exceeding ANSI/TIA-568-C.2 CAT 6a Channel Requirements) that incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package.

The E6A2824's twisted-pair construction (four separate pairs) of tin-plated copper conductors is surrounded by fluoropolymer dielectric that assures uniform conductivity with excellent solderability. The 100% foil and 85% 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.

PHYSICAL DATA

Conductor: 24 AWG Stranded TPC
Shield Coverage: 100% (Foil), 85% (Braid)
Operating Temperature: -55 to +150°C
Outer Diameter: in (mm) 0.275 (6.99)
Minimum Bend Radius: in (mm) 1.4 (35.56)
Weight: lbs/100 ft (kg/100 m) 4.55 (6.8)

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) 214 (65)

ENVIRONMENTAL DATA

Skydrol Resistant: YES, SAE AS4373E, Method 601
RoHS Compliant: YES, 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	2.4/2.8	(7.9/9.2)
@100 MHz	7.5/9.0	(24.6/29.5)
@250 MHz	11.7/14.0	(38.4/45.9)
@500 MHz	18.9/22.7	(62.0/74.5)

All values nominal, unless otherwise noted

E6A2824 CAT 6A ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E6A2824

PART #	CONTACT TYPE	TOOL PART #
110629	Shielded CAT 5e/CAT 6, Plug w/Strain Relief Sleeve	110288 - RJ45 Crimp Tool
110630	Shielded CAT 5e/CAT 6, Plug w/Protective Boot	110288 - RJ45 Crimp Tool
110789	Shielded CAT 5e/CAT 6, Plug w/ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	110288 - RJ45 Crimp Tool
110912	Shielded CAT 5e/CAT 6, 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