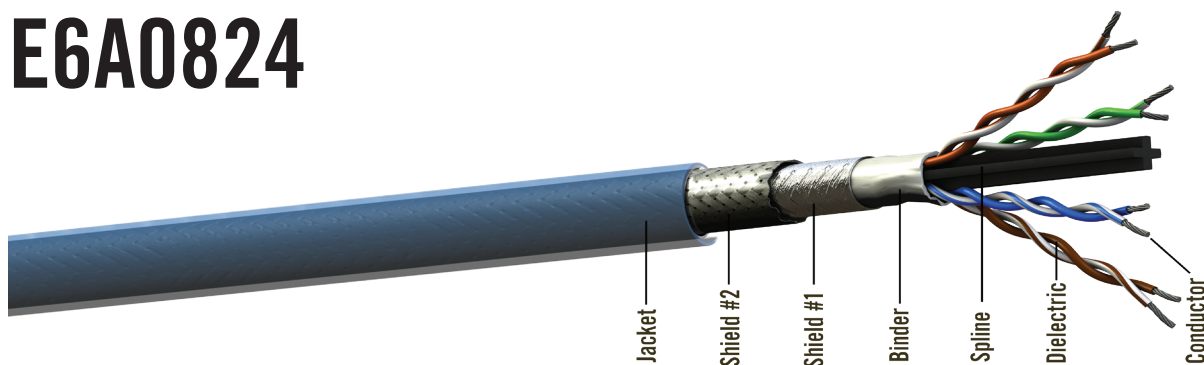


# E6A0824



## CABLE CONSTRUCTION

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

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

## 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 E6A0824 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 E6A0824's stranded silver-plated copper conductors are designed for high vibration environments, then twisted-pair at different lay lengths to effectively reduce inductive interference. 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.

## PHYSICAL DATA

**Conductor:** 24 AWG Stranded SPC  
**Shield Coverage:** 100% (Foil), 90% (Braid)  
**Temperature Range:** -55 to +200°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) 5.28 (7.9)

## 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) 246 (75)

## 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)
@250 MHz	10.9/13.1	(35.8/43.0)
@500 MHz	15.6/18.7	(51.2/61.4)

*All values nominal, unless otherwise noted*

**E6A0824 CAT 6A ETHERNET CABLE**

# CONTACTS/CONNECTORS FOR PART # E6A0824

PART #	CONTACT TYPE	TOOL PART #
110506	Shielded CAT 5e/CAT6, Plug w/ATUM Strain Relief	110288 - RJ45 Crimp Tool
110629	Shielded CAT 6, Plug w/ Strain Relief Sleeve	110288 - RJ45 Crimp Tool
110630	Shielded CAT 6, Plug w/ Protective Boot	110288 - RJ45 Crimp Tool
110789	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
111170	Shielded CAT 6a, Plug w/ATUM Strain Relief	111183 - RJ45 Crimp Tool
111171	Shielded CAT 6a, Plug w/ Strain Relief Sleeve	111183 - RJ45 Crimp Tool
111172	Shielded CAT 6a, Plug w/ Protective Boot	111183 - RJ45 Crimp Tool
111173	Shielded CAT 6a, Plug w/ ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	111183 - RJ45 Crimp Tool