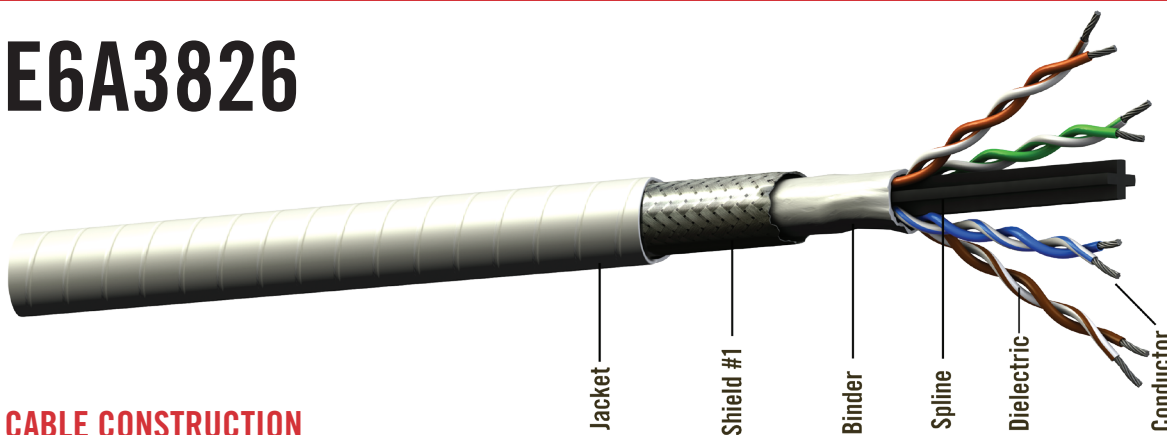


E6A3826



CABLE CONSTRUCTION

Conductors: Silver-Plated High Strength Copper Alloy
Dielectric: PFA
Spline: Fluoropolymer
Binder: PTFE Tape

Shield #1: Silver-Plated Copper Braid
Jacket: PTFE, 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 E6A3826 is a 4-Pair, 10G Base-T Cat 6a ethernet cable that incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package. The E6A3826's twisted-pair construction (four separate pairs) of silver-plated copper conductors is surrounded by fluoropolymer dielectric 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.

PHYSICAL DATA

Conductor: 26 AWG Stranded SPHSCA
Shield Coverage: 80% (Braid)
Operating Temperature: -55 to +200°C
Outer Diameter: in (mm) 0.22 (5.59)
Minimum Bend Radius: in (mm) 0.66 (16.76)
Weight: lbs/100 ft (kg/100 m) 3.3 (4.9)

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) 44.8 (147)
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	2.6/3.0	(8.5/9.8)
@100 MHz	8.2/9.7	(26.9/31.8)
@250 MHz	13.2/15.8	(43.3/51.8)
@500 MHz	19.3/23.0	(63.3/75.5)

All values nominal, unless otherwise noted

E6A3826 CAT 6A ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E6A3826

PART #	CONTACT TYPE	TOOL PART #
110731	Shielded CAT 6, Plug w/ATUM Strain Relief	110729 - RJ45 Crimp Tool
110725	Shielded CAT 6, Plug w/Protective Boot	110729 - RJ45 Crimp Tool
110790	Shielded CAT 6, Plug w/ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	110729 - RJ45 Crimp Tool
110826	Shielded CAT 6a, Plug w/ATUM Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110825	Shielded CAT 6a, Plug w/ATUM Strain Relief (568B)	110701 - Soft Jaw Clamping Pliers
110913	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110904	Shielded CAT 6a, 90° Plug w/ATUM 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
110845	Shielded CAT 6a, RJ45 Plug, Blade Patch	N/A
110811*	Siemon® CAT 7 (Tera) Plug, 4 Pair, 26 AWG	110701 - Soft Jaw Clamping Pliers
110813*	Siemon® CAT 7 (Tera) Jack, 4 Pair, 26 AWG	110701 - Soft Jaw Clamping Pliers
111007	Shielded CAT 6a Plug w/Clamp Nut Strain Relief	110701 - Soft Jaw Clamping Pliers
111009	Shielded CAT 6a Plug w/Clamp Nut Strain Relief	110701 - Soft Jaw Clamping Pliers