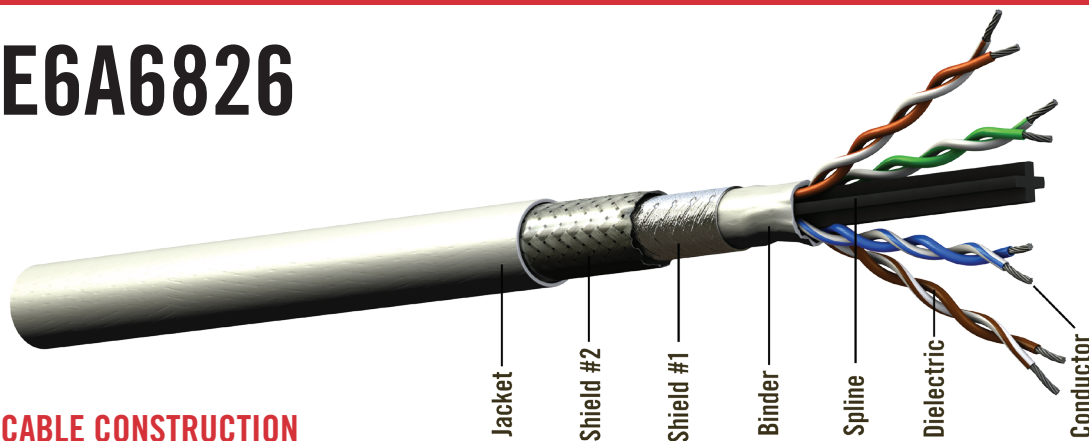


E6A6826



CABLE CONSTRUCTION

- Conductor:** Silver-Plated High Strength Copper Alloy
- Dielectric:** PFA
- Spline:** Fluoropolymer
- Binder:** PTFE Tape
- Shield #1:** Aluminum/Polyimide Foil
- Shield #2:** 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 E6A6826 Cat 6a Ethernet cable (exceeding ANSI/TIA-568-C.2 CAT 6a Channel Requirements) incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package. E6A6826 delivers 10 Gigabit performance, up to 214 ft. by incorporating differential lay lengths between pairs and utilizing a foil and braided shield. It features a silver-plated high-strength copper conductor and flexible, laser-markable PTFE jacket for technical performance. E6A6826 cables provide the performance necessary for demanding applications such as cabin management systems (CMS), in-flight entertainment (IFE), and Ethernet backbones.

PHYSICAL DATA

- Conductor:** 26 AWG Stranded SPHSCA
- Shield Coverage:** 100% (Foil), 80% (Braid)
- Temperature Range:** -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) 3.2 (4.8)

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) 44.8 (147)
- Max Distance:** ft (m) 214 (65)

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	2.6/3.0	(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

E6A6826 CAT 6A ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E6A6826

PART #	CONTACT TYPE	TOOL PART #
110725	Shielded CAT 6a, Plug w/Protective Boot	110729 - RJ45 Crimp Tool
110731	Shielded CAT 6, Plug w/ATUM Strain Relief	110729 - RJ45 Crimp Tool
110790	Shielded CAT 6, Plug w/ATUM Strain Relief (fits Amphenol® (RJF) ruggedized backshell)	110729 - RJ45 Crimp Tool
110913	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers
110904	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief	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
110937	Shielded CAT 6a, Jack w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers
110938	Shielded CAT 6a, Jack w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers