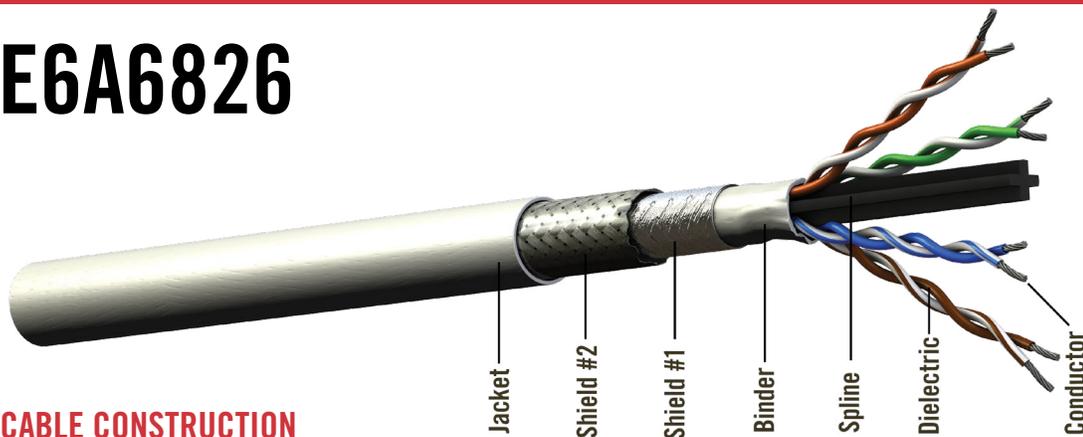


E6A6826



CABLE CONSTRUCTION

| | |
|--|--|
| Conductor: Silver-Plated High Strength Copper Alloy | Shield #1: Aluminum/Polyimide Foil |
| Dielectric: PFA | Shield #2: Silver-Plated Copper Braid |
| Spline: Fluoropolymer | Jacket: PTFE, White (Laser Markable) |
| Binder: PTFE Tape | |

COLOR CODES

| | |
|---|---|
| Pair #1: Blue, White/Blue Stripe | Pair #3: Green, White/Green Stripe |
| Pair #2: Orange, White/Orange 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 # |
|--------|---|-----------------------------------|
| 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 |
| 110845 | Shielded CAT 6a, RJ45 Plug, Blade Patch | N/A |