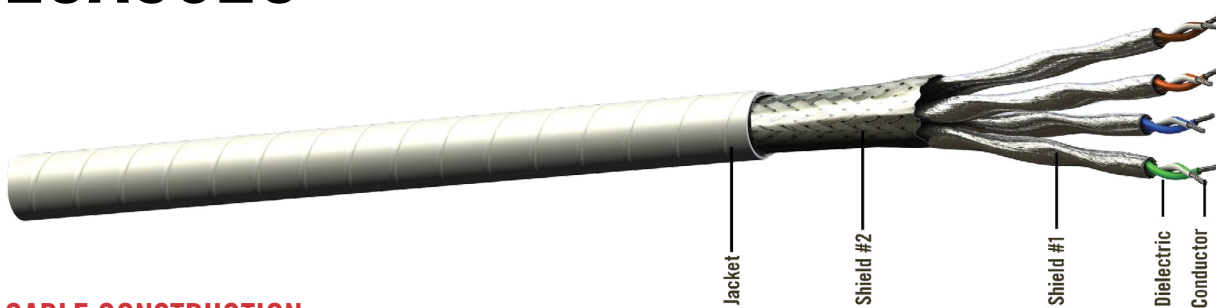


E6A5826



CABLE CONSTRUCTION

Conductor: Silver-Plated High Strength Copper Alloy
Dielectric: PFA
Shield #1: Aluminum/Polyimide Foil (each pair)
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 E6A5826 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. E6A5826 delivers 10 Gigabit performance by incorporating a silver-plated high-strength copper conductor and flexible, laser-markable PTFE jacket for technical performance. E6A5826 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), 90% (Braid)
Temperature Range: -55 to +200°C
Outer Diameter: in (mm) 0.215 (5.46)
Minimum Bend Radius: in (mm) 1.1 (27.94)
Weight: lbs/100 ft (kg/100 m) 3 (4.5)

ELECTRICAL DATA

Impedance: 100 ohms
Capacitance: pF/ft (m) 12 (39.4)
Velocity of Propagation: 80%
Dielectric Voltage Rating: (kV, RMS) 0.9
DC Resistance: ohms/1000 ft (m) 44.8 (147)
Max Distance*: ft (m) 230 (70)

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	2.4/2.8	(7.9/9.2)
@100 MHz	7.5/9.0	(24.5/29.5)
@250 MHz	12.3/14.7	(40.4/48.2)
@500 MHz	17.8/21.4	(58.4/70.2)

All values nominal, unless otherwise noted

E6A5826 CAT 6A ETHERNET CABLE

