E74826

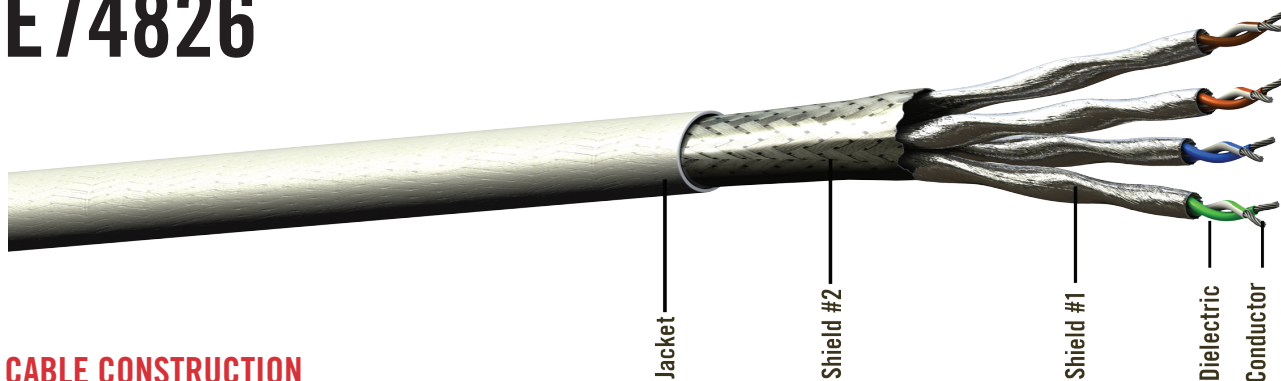Labels: Jacket, Shield #2, Shield #1, Dielectric, Conductor

CABLE CONSTRUCTION

Conductor: Silver-Plated Copper Alloy
Dielectric: FEP
Shield #1: Aluminum/Polyester Foil (Each Pair)
Shield #2 Silver-Plated Copper Braid

Jacket: ETFE, 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 E74826 is a 4 pair, 10G Base-T Cat 7 cable that incorporates an innovative design that provides maximum electrical performance in a small, lightweight, flexible package. Each pair uses a Silver-Plated Copper alloy conductor and is individually shielded. The E74826 cable delivers 10 Gb performance per ISO 11801, Class F Channel requirements. An ETFE laser-markable jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation. E74826 is suitable for airborne 10G Base-T CAT7 Local Area Network applications such as cabin management systems (CMS), in-flight entertainment (IFE), and Ethernet backbones.

PHYSICAL DATA

Conductor:	26 AWG Stranded SPCA
Shield Coverage:	100% (Foil), 90% (Braid)
Temperature Range:	-55 to +200°C
Outer Diameter: in (mm)	0.23 (5.84)
Minimum Bend Radius: in (mm)	1.8 (45.72)
Weight: lbs/100 ft (kg/100 m)	3.3 (4.9)

ELECTRICAL DATA

Impedance:	100 ohms
Capacitance: pF/ft (m)	13 (42.7)
Velocity of Propagation:	78%
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)
@100 MHz	7.5/9.0	(24.6/29.5)
@250 MHz	12.3/14.7	(40.4/48.2)
@500 MHz	17.8/21.4	(58.4/70.2)
@600 MHz	22.5/23.7	(73.8/77.8)

All values nominal, unless otherwise noted

E74826   CAT 7 ETHERNET CABLE

PIC® WIRE & CABLE

CONTACTS/CONNECTORS
FOR PART # E74826

PART #	CONTACT TYPE	TOOL PART #
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
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
111112	Shielded CAT 8, RJ45 Plug (568B)	110701 - Soft Jaw Clamping Pliers
111174	Shielded CAT 6a, Plug w/ ATUM Strain Relief	111183 - RJ45 Crimp Tool
111175	Shielded CAT 6a, Plug w/ Strain Relief Sleeve	111183 - RJ45 Crimp Tool
111176	Shielded CAT 6a, Plug w/ Protective Boot	111183 - RJ45 Crimp Tool
111177	Shielded CAT 6a, Plug w/ ATUM Strain Relief	111183 - RJ45 Crimp Tool