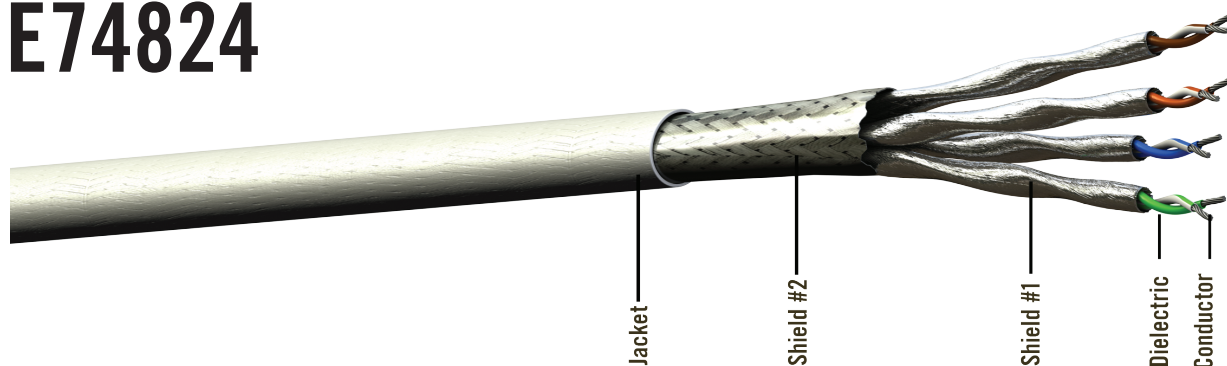


E74824



CABLE CONSTRUCTION

Conductors: 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 E74824 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 E74824 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. E74824 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:	24 AWG Stranded SPCA
Shield Coverage:	100% (Foil), 90% (Braid)
Temperature Range:	-55 to +200°
Outer Diameter: in (mm)	0.28 (7.11)
Minimum Bend Radius: in (mm)	2.2 (55.88)
Weight: lbs/100 ft (kg/100 m)	4.7 (7.0)

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)	28.4 (93.2)
Max Distance: ft (m)	296 (90)

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	6.6/7.0	(21.7/23.0)
@250 MHz	10.8/11.4	(35.4/37.4)
@500 MHz	15.7/16.6	(51.5/54.5)
@600 MHz	17.5/18.4	(57.4/60.4)

All values nominal, unless otherwise noted

E74824 CAT 7 ETHERNET CABLE

CONTACTS/CONNECTORS FOR PART # E74824

PART #	CONTACT TYPE	TOOL PART #
110912	Shielded CAT 6a, 90° Plug w/ATUM Strain Relief	110701 - Soft Jaw Clamping Pliers
110900	Shielded CAT 6a, 90° Plug w/ATUM 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
110973	Shielded CAT 6a, Plug w/Clamp Nut Strain Relief	110701 - Soft Jaw Clamping Pliers
110975	Shielded CAT 6a, Plug w/Clamp Nut Strain Relief	110701 - Soft Jaw Clamping Pliers
111179	Shielded CAT 6a, Plug w/ATUM Strain Relief	111184 - RJ45 Crimp Tool
111180	Shielded CAT 6a, Plug w/Strain Relief Sleeve	111184 - RJ45 Crimp Tool
111181	Shielded CAT 6a, Plug w/Protective Boot	111184 - RJ45 Crimp Tool
111107	Shielded CAT 8.1, RJ45 Plug	110701 - Soft Jaw Clamping Pliers
111109	Shielded CAT 8.1, RJ45 Jack	110701 - Soft Jaw Clamping Pliers