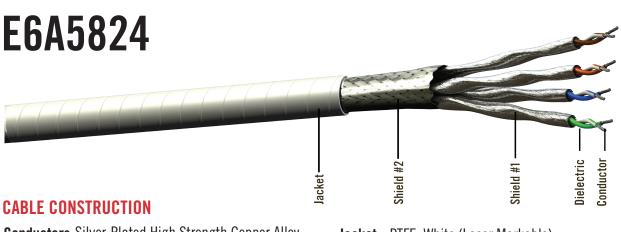
PIC MATES CAT 6A 10G BASE-T 4 PAIR CABLE



Conductors: Silver-Plated High Strength Copper Alloy **Dielectric:** PFA **Shield #1:** Aluminum/Polyimide Foil (each pair)

- Shield #2 Silver-Plated Copper Braid
- Silver-Plated Copper Draid

COLOR CODES

Pair #1:Blue, White/Blue StripePair #2:Orange, White/Orange Stripe

Jacket: PTFE, White (Laser Markable)

Pair #3:	Green, White/Green Stripe
Pair #4:	Brown, White/Brown Stripe

The E6A5824 is a 4-Pair, 10G Base-T Cat 6a Ethernet cable that incorporates innovative design features to provide maximum electrical performance in a small, lightweight, and flexible package. E6A5824 cable cannot only be used for Cat 6a, 10 Gbit Ethernet applications, but also can be used for video applications because of the low skew between each pair.

The E6A5824's twisted-pair construction (four separate pairs) of silver-plated copper conductors are individually shielded. The 100% foil and 90% braided shielding serve to further protect against EMI. A laser-markable PTFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

PHYSICAL DATA

Conductor: Shield Coverage: Temperature Range: Outer Diameter: in (mm) Minimum Bend Radius: in (mm) Weight: lbs/100 ft (kg/100 m) 24 AWG Stranded SPHSCA 100% (Foil), 90% (Braid) -55 to +200° 0.255 (6.6) 1.3 (33.02) 4.2 (6.3)

ELECTRICAL DATA

Impedance:	100 ohms
Capacitance: pF/ft (m)	13 (42.7)
Velocity of Propagation:	80%
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

	Nom / Max	Nom / Max
Frequency	dB/100 ft	(dB/100 m)
@10 MHz	1.9/2.1	(6.2/6.9)
@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)

All values nominal, unless otherwise noted





CONTACTS/CONNECTORS FOR PART # E6A5824

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
110973	Shielded CAT 6a, Plug w/Clamp Nut Strain Relief (568A)	110701 - Soft Jaw Clamping Pliers
110975	Shielded CAT 6a, Plug w/Clamp Nut 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
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



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