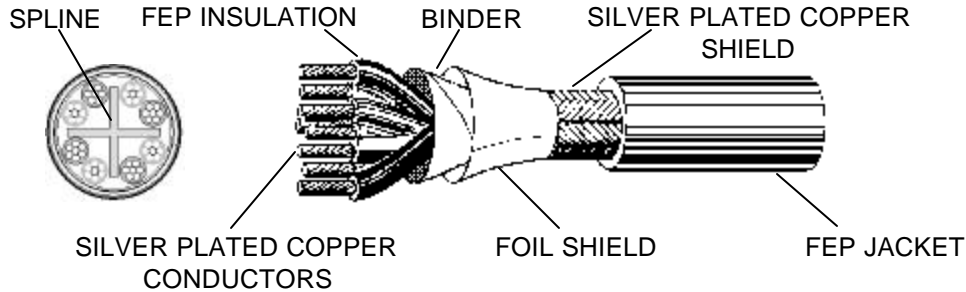


10/100BASE-T 8-Conductor (4-Pair) CABLE



This cable has been specially designed by PIC for airborne 10- and 100Base-T Local Area Network applications as defined by ARINC Specification 646. The twisted-pair construction (four separate pairs) effectively reduces inductive interference while 100% foil and 92% braided shielding serve to further protect against EMI.

Data transmission aboard aircraft faces more severe environmental and EMI situations than conventional LAN systems in commercial buildings, hence special measures have been taken to preserve technical performance.

Silver-plated copper conductors and shielding assure uniform conductivity with excellent solderability. An FEP jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E50824 exceeds ANSI/TIA-568A Category 5e requirements. It is Skydrol resistant and meets the FAA flammability requirements of FAR 23.1359(d), FAR 25.853(a) and FAR 25.869(a)(4).

PHYSICAL DATA		ELECTRICAL DATA	
Conductors	24 AWG (7/32) SPC	Impedance (ohms)	100
Insulation	Solid FEP	Capacitance (pF/ft) (Between Conductors)	14.5
Temperature	-55° to +200°C	Velocity of Propagation	70%
Shield Coverage	100% (Foil), 92% (Braid)	Attenuation (Maximum) (dB/100m)	
Outer Diameter, Nominal	0.265 in.	@ 10 MHz	7.8
		@ 100 MHz	26.4
Min. Bend Radius	1.4 in.	Attenuation (Maximum) (dB/100 ft.)	
		@ 10 MHz	2.4
Weight per 100 ft.	4.8 lbs	@ 100 MHz	8.0
		Dielectric Withstanding Voltage	1.5 KV RMS
Color Coding: Pair #1 - Blue, White + Blue Stripe Pair #2 - Green, White + Green Stripe Pair #3 - Orange, White + Orange Stripe Pair #4 - Brown, White + Brown Stripe		Power Sum Near-End Cross-Talk (PS-NEXT)	
		@ 10 MHz	50.3 dB Min
		@ 100 MHz	35.3 dB Min

PIC P/N E50824

