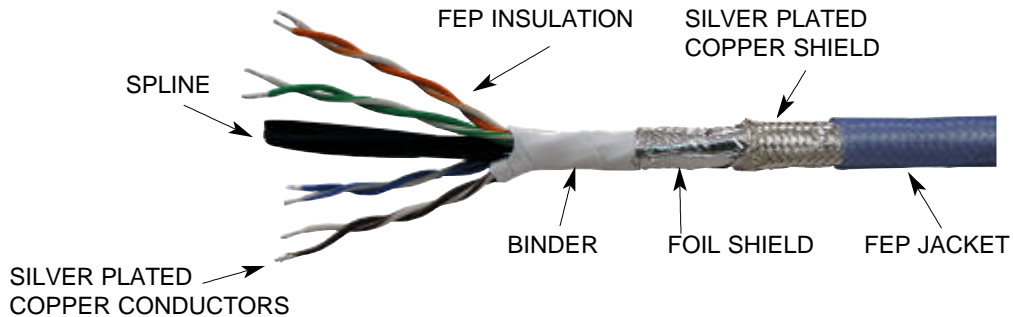


10/1000BASE-T GIGABIT ETHERNET 8-CONDUCTOR (4-Pair) CABLE



This cable has been specially designed by PIC for airborne Gigabit Ethernet Local Area Network applications up to 240 feet. 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-568B Category 6 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).

U.S. Patent No. 6,835,093.

PHYSICAL DATA		ELECTRICAL DATA	
Conductors	24 AWG Stranded 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)	
		@ 10 MHz	2.4
		@ 100 MHz	8.0
Outer Diameter	0.275 in.	Dielectric Voltage Rating (KV RMS)	1.5
Minimum Bend Radius	1.4 in.	DC Resistance (Ohms/100 ft. Max)	2.42
Weight per 100 ft.	4.8 lbs	Structural Return Loss (SRL)	
		@ 10 MHz	-25.0
		@ 100 MHz	-20.0
		Power Sum Near-End Cross-Talk (PS-NEXT)	
		@ 10 MHz	-57 dB
		@ 100 MHz	-42 dB

All values nominal unless otherwise noted.

PIC P/N E50824



AVAILABLE IN STOCK FOR IMMEDIATE SHIPMENT

