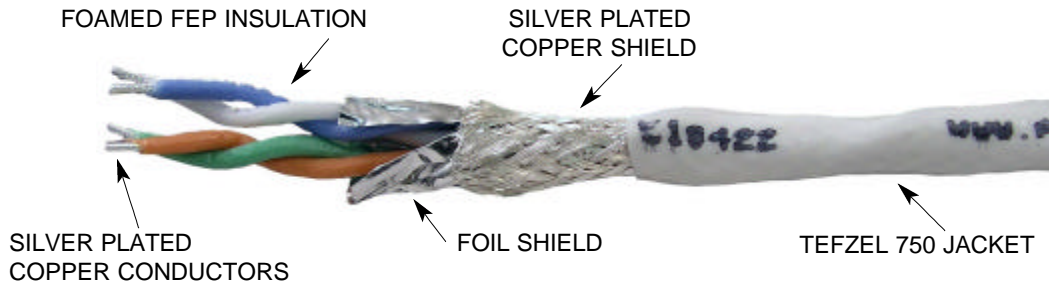


10/100BASE-T QUAD (4-Conductor) CABLE



This cable has been specially designed by PIC for airborne 10- and 100Base-T Local Area Network applications as defined by ARINC Specification 664. The twisted-pair construction (two separate pairs) effectively reduces inductive interference while 100% foil and 90% 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.

Each conductor is surrounded by a foamed FEP dielectric

having a high velocity of propagation which permits smaller overall diameter and weight while retaining performance and required operating parameters. Silver-plated copper conductors and shielding assure uniform conductivity with excellent solderability. A Tefzel jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E10422 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	22 AWG (19/34) SPC	Impedance (ohms)	100
Insulation	Foam FEP	Capacitance (pF/ft) (Between Conductors)	13.0
Temperature	-55° to + 200°C	Velocity of Propagation	78%
Shield Coverage	100% (Foil), 90% (Braid)	Attenuation (dB/100 ft) @ 10 MHz	2.0
Outer Diameter, Nominal	0.26 in.	@ 100 MHz	6.7
Min. Bend Radius	2.8 in.	Dielectric Withstanding Voltage	1.5KV RMS
Weight per 100 ft.	5.6 lbs	Structural Return Loss (SRL), Nominal @ 10 MHz	-23.0 dB
		@ 100 MHz	-17.0 dB
		Power Sum Near-End Cross-Talk, Nominal (NEXT) @ 10 MHz	-47 dB
		@ 100 MHz	-32 dB

PIC P/N E10422



AVAILABLE IN STOCK FOR IMMEDIATE SHIPMENT

