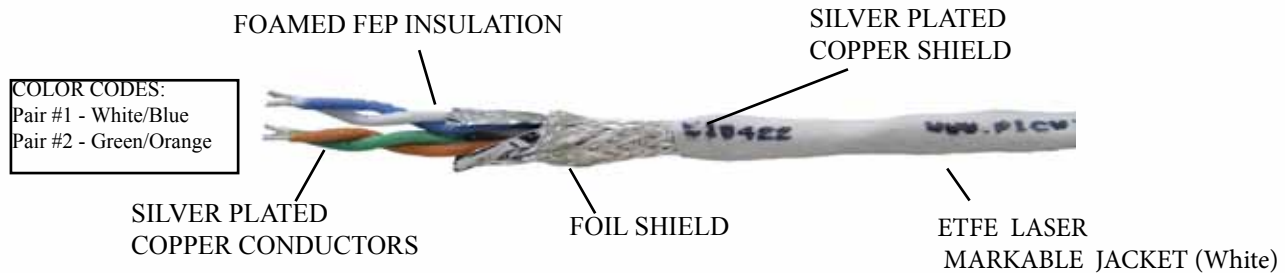


10/100BASE-T 2 PAIR (4-Conductor) CABLE



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% braid 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. An ETFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E10422 exceeds ANSI/TIA-568B Category 5e requirements. It is Skydrol resistant, RoHS compliant and passes the FAA flammability requirements of FAR Part 23 and 25, Appendix F. Test results are available upon request.

PHYSICAL DATA

Conductors	22 AWG Stranded SPC
Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter (in.)	0.295
Temperature	-55° to + 200°C
Min. Bend Radius (in.)	2.80
Weight (lbs / 100ft)	5.6

ELECTRICAL DATA

Impedance (ohms)	100
Capacitance Between Conductors (pF/ft)	13.0
Velocity of Propagation (%)	
Attenuation (dB/100 ft) Max.	80
@ 10 MHz	2.0
@ 100 MHz	6.7
Dielectric Voltage Rating (KV RMS)	1.5
Structural Return Loss (SRL) (dB) Min.	
@ 10 MHz	23.0
@ 100 MHz	16.0
Near-End Cross-Talk (NEXT) (dB) Min.	
@ 10 MHz	50.3
@ 100 MHz	35.3
DC Resistance (Ohms/100 ft.) Max.	1.52

All values nominal unless otherwise noted.

Most Cables are in Stock and Available for Quick Delivery
Please Contact Customer Service for Details @ 262-246-0500

