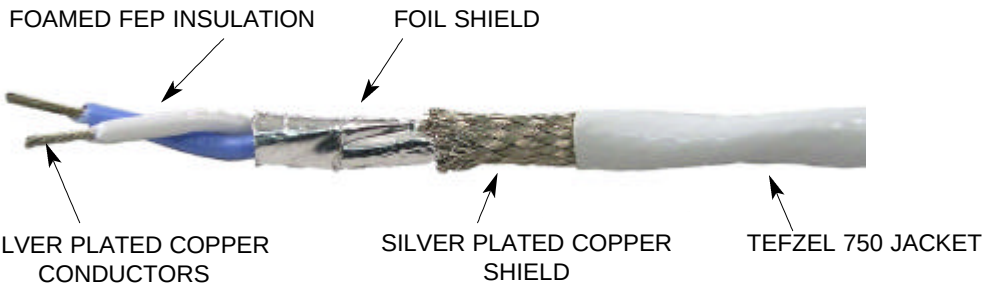
PIC WIRE & CABLE
THE ANGELUS CORPORATION

PIC **P/N E10222**
PRODUCT BULLETIN

10/100BASE-T (2-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 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 750 jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E10222 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

Conductors	22 AWG (19/34) SPC
Insulation	Foam FEP
Temperature	-55° to +200°C
Shield Coverage	100% (Foil), 90% (Braid)
Outer Diameter, Nominal	0.189in.
Min. Bend Radius	.95in.
Weight per 100 ft.	2.3 lbs

ELECTRICAL DATA

Impedance (ohms)	100
Capacitance (pF/ft) Between Conductors)	13
Velocity of Propagation	78%
Attenuation (dB/100 ft.)	
@ 10 MHz	2.0
@ 100 MHz	6.7
Dielectric Withstanding Voltage	1.5 KV RMS
Structural Return Loss (SRL), Nominal	
@ 10 MHz	-25.0 dB
@ 100 MHz	-17.0 dB

PIC **P/N E10222**

AVAILABLE IN STOCK FOR IMMEDIATE SHIPMENT

0406

N53 W24747 South Corporate Circle • P. O. Box 330 • Sussex WI 53089-0330 • 262 246-0500 • FAX 262 246-0450 • 800 742-3191 • www.picwire.com