

COLOR CODES:
Red, Blue, Green, Yellow

100BASE-T STAR QUAD ETHERNET CABLE

SILVER PLATED,
HIGH STRENGTH
COPPER ALLOY
CONDUCTORS

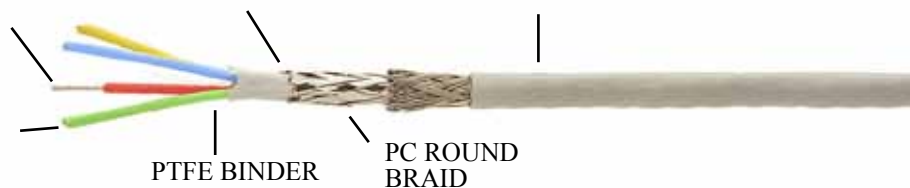
FLAT TPC
STRIP BRAID

ETFE JACKET
LASER MARKABLE

FOAM FEP

PTFE BINDER

PC ROUND
BRAID



This light weight, low loss cable has been specially designed by PIC for airborne 100BASE-T data applications as defined by ARINC Specification 664.

The conductor insulation is foamed FEP making it small, light and low loss. Data transmission aboard aircraft faces more severe environmental and EMI situations than conventional LAN systems in commercial buildings, hence the double shielding to preserve technical performance. The cable is designed to be terminated with ARINC 600 and D38999 quad-type connectors. It is compatible with any connector designed for Tensolite cable part number NF24Q100.

An ETFE jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation and is laser markable.

E51424 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	24 AWG Stranded SPCA
Shield Coverage	90% (Flat) 85% (Rd Braid)
Outer Diameter (in.)	0.161
Temperature	-55° to +150°C
Min. Bend Radius (in.)	0.80
Weight (lbs / 100ft)	2.2

All values nominal unless otherwise noted.

Connectors

RJ45 Shielded Plug	PIC P/N 190506
RJ45 Shielded Plug	PIC P/N 190558
RJ45 Crimp Tool	PIC P/N 110288

ELECTRICAL DATA

Impedance (ohms)	100
Capacitance Between Conductors (pF/ft)	13.0
Velocity of Propagation (%)	80
Attenuation (dB/100ft.) Max	
@ 10 MHz	2.7
@ 100 MHz	9.2
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	2.62

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

