

PIC E51426

100 BASE-T STAR QUAD ETHERNET CABLE

CABLE CONSTRUCTION

- 1. ETFE Jacket (White) Laser Markable
- 2. Tin-Plated Copper Outer Round Braid
- 3. Tin-Plated Copper Inner Flat Strip Braid
- 4. PTFE Tape Binder Clear
- 5. Fluoropolymer Insulation
- 6. Fluoropolymer Filler
- 7. Silver-Plated High Strength Copper Alloy Conductors



Pair #1 - Red/Blue Pair #2 - Yellow/Green

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

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 contacts. It is compatible with any contact designed for Tensolite cable part number NF26Q100.

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

E51426 exceeds Category 5e requirements, is Skydrol resistant and meets the FAA flammability requirements of 14 CFR Part FAR 25.869(a)(4) Amdt 25-113 Appendix F Part I (a)(3).



PHYSICAL DATA

Conductors	26 AVVG (19/	38) Stranded SPCA
Shield Coverage	90% Inner (Braid),	85% Outer (Braid)
Operating Temperature	}	-55° to +150°C
Outer Diameter: in (mm)		0.14 (3.48)
Minimum Bend Radius: in (mm)		0.70 (17.78)
• Weight: lbs/100 ft (kg/100 m)		1.8 (2.7)

OC V/V/C (40/00) C+===d=d CDCV

ELECTRICAL DATA

Impedance	e: ohms		100
Capacitance: pF/ft (m)			14.5 (47.6)
Velocity of Propagation: %			70.0
Dielectric Voltage Rating (kV RMS)			1.5
DC Resistance: ohms/1000 ft (m) Max			44.8 (147.0)
Max Dista	nce*: ft (m)		214 (65)
Attenuatio	n: Nom / Max	dB/100 ft	(dB/100 m)
	• @10 MHz • @100 MHz	2.8 / 3.2 9.6 / 11.0	(9.2 / 10.5) (31.5 / 36.1)

All values nominal unless otherwise noted *Note: The max distance is based on maximum channel insertion loss per ANSI/TIA-568-C.2











PIC E51426 CONNECTORS

Description	Connector P/N	Tool P/N
Shielded CAT 5e, Plug w/ATUM Strain Relief	110731	110729 - RJ45 Crimp Tool
Shielded CAT 5e, Plug w/Protective Boot	110725	110729 - RJ45 Crimp Tool
Shielded CAT 6, Plug w/ATUM Strain Relief (fits Amphenol (RJF) ruggedized backshell)	110790	110729 - RJ45 Crimp Tool
Shielded CAT 6a, Jack w/ATUM Strain Relief	110939	110701 - Soft Jaw Clamping Pliers

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