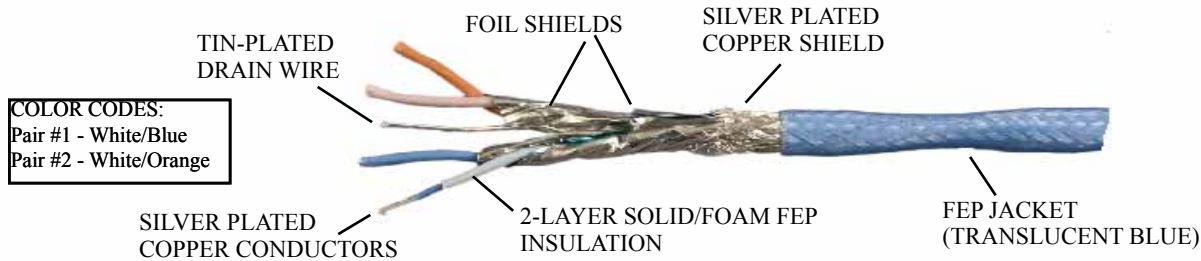


## 100 Ω 2-PAIR HIGH SPEED DATA CABLE



This cable has been specially designed by PIC for airborne high-speed data applications. The twisted-pair construction (two separate pairs) effectively reduces inductive interference while 100% foil (for each pair, as well as the entire cable) plus 85% 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 dual-layer foamed/solid FEP dielectric insulation having a high velocity of propagation. This permits smaller overall diameter and weight, at the same time retaining performance and required operating parameters. Removal of the outer foamed layer reveals the inner solid insulation of a diameter compatible with conventional RJ45 connector terminations.

Silver-plated copper conductors and shielding assure uniform conductivity with excellent solderability. An FEP jacket protects the cable against abrasion and environmental effects while maintaining flexibility for ease of installation.

E20424 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		ELECTRICAL DATA	
Conductors	24 AWG Stranded SPC	Impedance (ohms)	100
Shield Coverage	100% (Foil), 85% (Braid)	Capacitance Between Conductors (pF/ft)	13.0
Outer Diameter (in.)	0.265	Velocity of Propagation (%)	80
Temperature	-55° to +150°C	Attenuation (dB/100 ft) Max.	
Min. Bend Radius (in.)	1.30	@ 10 MHz	2.2
		@ 100 MHz	7.5
Weight (lbs / 100ft)	4.6	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
All values nominal unless otherwise noted.		DC Resistance (Ohms / 100 ft.) Max.	2.42

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

