

CABLE CONSTRUCTION

1. FEP Jacket (Translucent Blue)
2. Silver-Plated Copper Shield
3. Foil Shield
4. PTFE Insulation
5. Silver-Plated Copper Conductors

COLOR CODES

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

This cable has been specially designed by PIC for airborne high-speed 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 special measures have been taken to preserve technical performance.

Each conductor is surrounded by a fluoropolymer dielectric insulation and is designed to be terminated in with ARINC 600 and 38999 quadrax contacts. It is compatible with any contact designed for Draca Fileca cable P/N F4704.

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

E50424 exceeds Category 5e requirements, 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 SPC
- Shield Coverage 100% (Foil), 85% (Braid)
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.17 (4.32)
- Minimum Bend Radius: in (mm) 1.00 (25.40)
- Weight: lbs/100 ft (kg/100 m) 2.7 (4.0)

ELECTRICAL DATA

- Impedance: ohms 100
- Capacitance: pF/ft (m) 13.0 (42.7)
- Velocity of Propagation: % 69.5
- Dielectric Voltage Rating (kV RMS) 1.5
- DC Resistance: ohms/1000 ft (m) Max 24.2 (79.4)
- Max Distance*: ft (m) 236 (72)
- Attenuation: Nom / Max dB/100 ft (dB/100 m)
 - @10 MHz 2.2 / 3.0 (7.2 / 9.8)
 - @100 MHz 7.1 / 8.2 (23.3 / 26.9)

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



Description	Connector P/N	Tool P/N
Shielded CAT 5e, Plug w/Strain Relief Sleeve	190007 (568A) 190015 (ISDN)	110340 - RJ45 Crimp Tool
Shielded CAT 5e, Plug w/Protective Boot	190061 (568A) 190062 (ISDN)	110340 - RJ45 Crimp Tool
Shielded CAT 6a, Jack w/ATUM Strain Relief	110939	110701 - Soft Jaw Clamping Pliers

Note: Part 110274 has been replaced with 110340.



Call PIC For Availability

