PIC DataMATES®

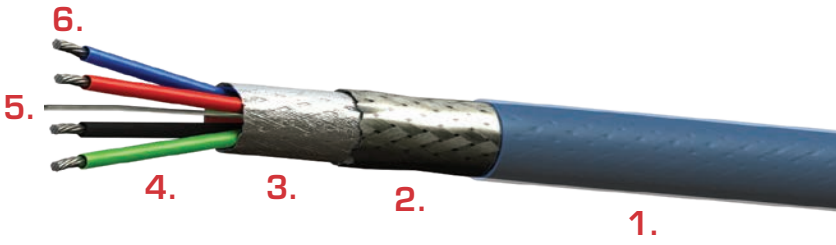
PRODUCT BULLETIN

PIC F20424

150 OHM QUAD FIBER CHANNEL CABLE

CABLE CONSTRUCTION

1. Extruded Fluoropolymer Jacket (Translucent Blue)
2. Tin-Plated Copper Braided Shield
3. Foil Shield
4. Foamed Fluoropolymer Insulation
5. Fluoropolymer Filler
6. Silver-Plated High Strength Copper Alloy Conductors



COLOR CODES

Pair #1 - Red, Black
Pair #2 - Blue, Green

This cable has been specially designed by PIC for airborne high-speed data applications. It is an approved cable by Honeywell for the EPIC/APEX System.

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 foam fluoropolymer insulation and is designed to be terminated in ARINC 600 and 38999 quadrax contacts.

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

F20424 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% Min.
• Operating Temperature	-55° to +150°C
• Outer Diameter: in (mm)	0.24 (6.15)
• Minimum Bend Radius: in (mm)	1.20 (30.48)
• Weight: lbs/100 ft (kg/100 m)	3.7 (5.4)

ELECTRICAL DATA

• Impedance: ohms	150
• Capacitance: pF/ft (m)	8.5 (24.9)
• Velocity of Propagation: %	80.0
• Dielectric Voltage Rating: KV RMS	0.9
• DC Resistance: ohms/1000 ft (m) Max	26.2 (86.0)
• Attenuation: dB/100 ft (m)	
• @ 10 MHz	1.6 (5.2)
• @ 100 MHz	5.2 (17.1)
• @ 500 MHz	11.5 (37.7)

All values nominal unless otherwise noted