

## CABLE CONSTRUCTION

1. ETFE Jacket (White) Laser Markable
2. Silver-Plated Copper Braided Shield
3. Foil Shield
4. Silver-Plated Copper Drain Wire
5. Fluoropolymer Insulation
6. Silver-Plated Copper Conductors

## COLOR CODES

- Pair #1 - Blue, White/Blue  
 Pair #2 - Orange, White/Orange  
 Pair #3 - Green, White/Green  
 Pair #4 - Brown, White/Brown

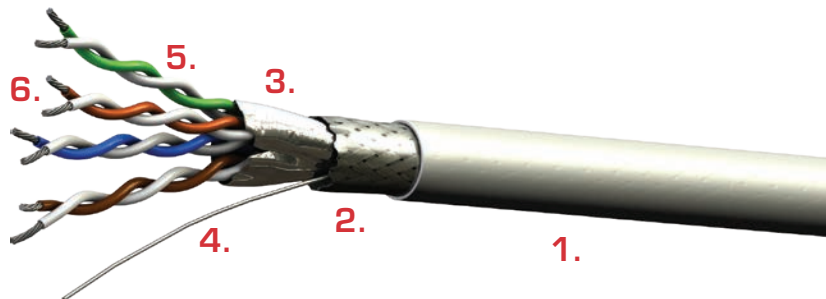
This cable has been specially designed by PIC for airborne Digital Video applications. Today's high resolution video displays require a high performance cable that exhibits low signal skew and low return loss. Each signal in a video cable must arrive at the video display at the same time in order to provide a sharp and clear video image. The difference in signal delay from pair to pair is known as skew.

This cable provides a very low skew between pairs allowing long cable runs while still maintaining performance. This cable will replace an RGB bundled coax composite cable that would typically be used, providing a weight savings and ease of installation. Each pair is also bonded together to maintain 100 ohm impedance.

DVI50824 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.

## CONNECTOR DATA

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



## PHYSICAL DATA

- Conductors 24 AWG (19/36) Stranded SPC
- Shield Coverage 100% (Foil), 85% (Braid)
- Operating Temperature -55° to +200°C
- Outer Diameter: in (mm) 0.25 (6.22)
- Minimum Bend Radius: in (mm) 2.30 (25.40)
- Weight: lbs/100 ft (kg/100 m) 4.8 (7.1)

## ELECTRICAL DATA

- Impedance: ohms 100
- Capacitance: pF/ft (m) 15.0 (49.2)
- Velocity of Propagation: % 70.0
- Dielectric Voltage Rating (kV RMS) 1.5
- DC Resistance: ohms/1000 ft (m) 28.5 (93.5)
- Inter-pair delay skew: ns/100 ft (m) Max 1.22 (4.00)
- Attenuation: dB/100 ft (m) Max
  - @ 10 MHz 2.6 (8.6)
  - @ 100 MHz 8.8 (29.0)

*All values nominal unless otherwise noted*