

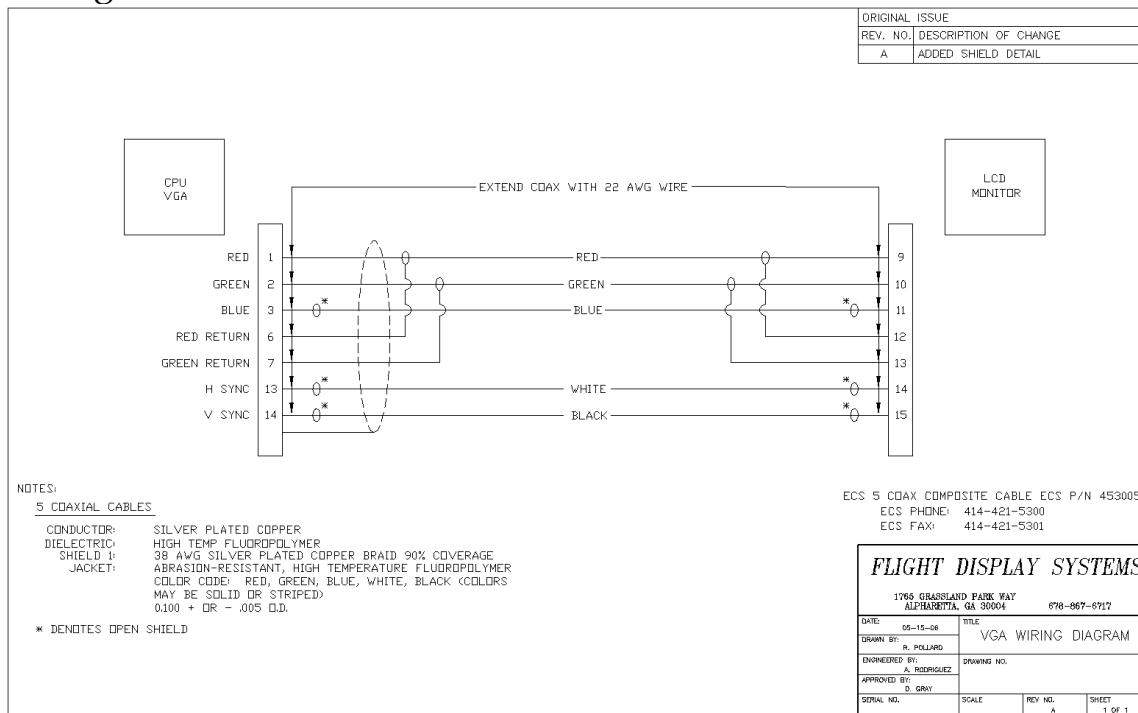
# Flight Display Systems

Enhancing the Flight Experience

## “Bullet-Proof VGA Wiring”

((This document shall replace VGA wiring information in all FDS manuals.))

Electronic Cable Specialists, Inc. ([www.ecsdirect.com](http://www.ecsdirect.com)) has developed a cable which is designed specifically to fit the needs of aircraft VGA wiring.



ECS P/N 453005 is a single shielded cable containing 5 separate coaxial cables, color-coded to match the function of the wires. The following information is to help the installer utilize the wire to its fullest potential when wiring VGA devices.

### Wire Functions

The red wire and its shield are the Red Video and Red Return, respectively. The green wire and its shield are the Green Video and Green Return, respectively. The blue wire is Blue Video (Its shield is not used). The white and black wires are Horizontal and Vertical Sync, respectively (Their shields are not used).

(Continued...)

Flight Display Systems  
Phone 678-867-6717

1765 Grassland Parkway  
Fax 678-867-6742

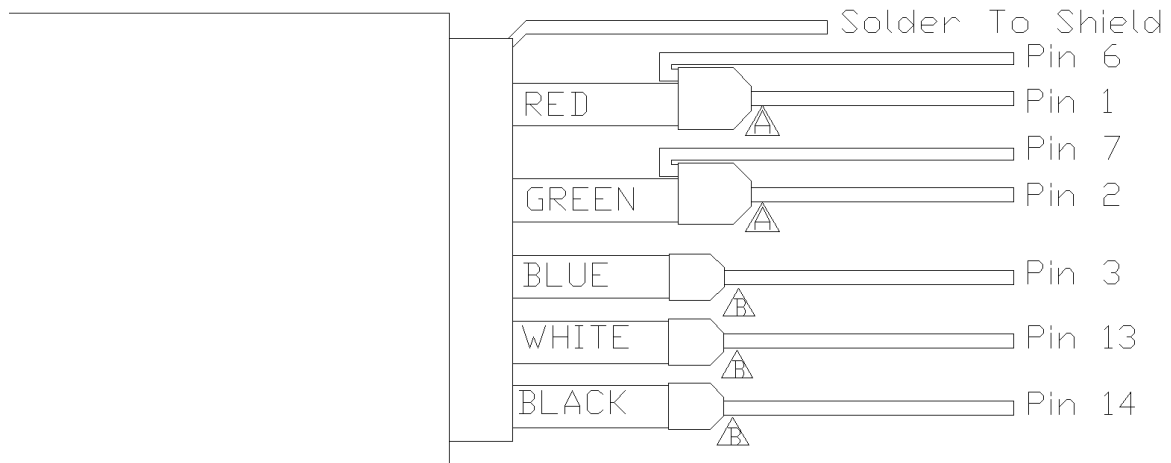
Alpharetta, GA 30004  
[FLIGHTDISPLAY.COM](http://FLIGHTDISPLAY.COM)

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## Standard VGA Wiring

On devices which have dedicated VGA port, the cable-to-connector pin-out is as shown:

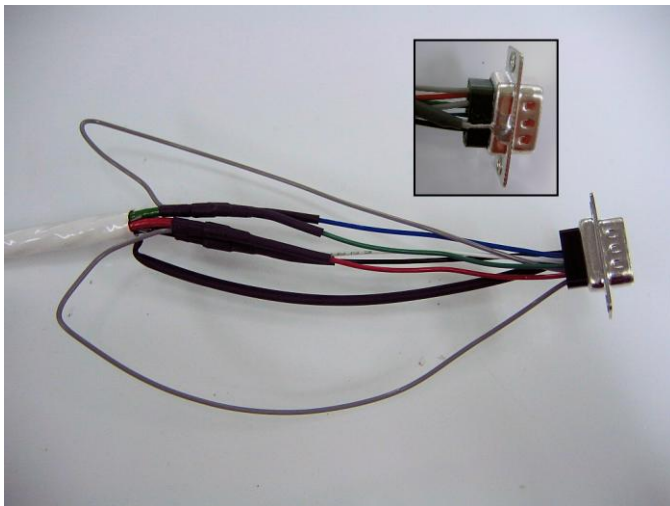


Notes:

- A - Environmental Splice
- B - Raychem Cap

## Environmental Splicing

The individual wires should be extended with 6" 22awg wires using an environmental splice for the red & green wires, and Raychem caps for the blue, white, and black wires. Crimp all wires with DB-15 pins, and pin to the appropriate connector as required. The outer shield of the ECS wire needs to be extended in order to solder to the shell of the DB-15 connector.



Sample of ECS wiring

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