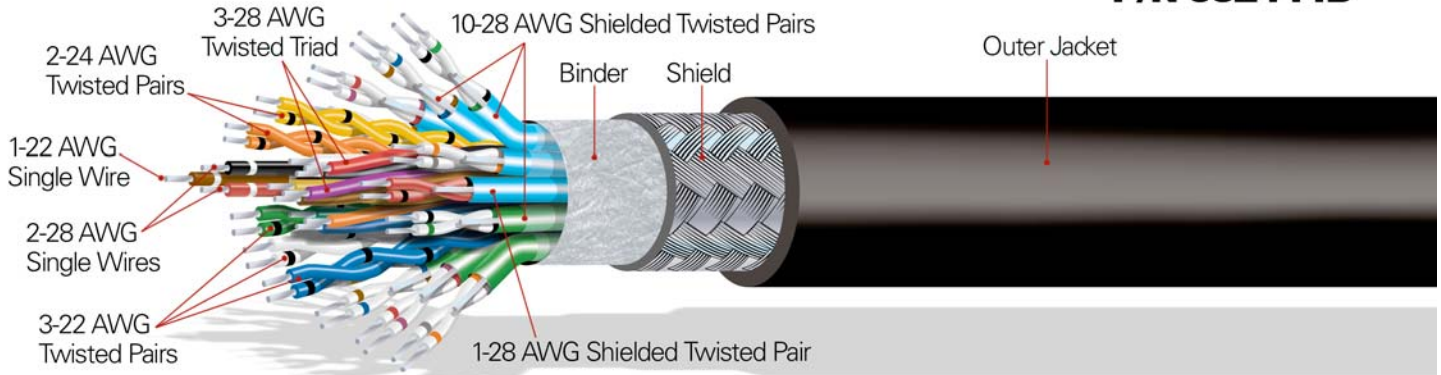




Providing complete avionics installation provisions and support for the Aviation industry since 1984.

Digital Display Composite Cable

P/N 382444B



44 Conductors

Component #1 – 10 Shielded Twisted Pairs:

- Conductors:** 28 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer
- Drain Wire:** 28 AWG stranded tin plated copper
- Shield:** Aluminum/polyester foil
- Binder:** Pairs 1 - 5, Blue polyester tape
Pairs 6 - 10, Green polyester tape

Component #2 – 2 Single Wires:

- Conductors:** 28 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer

Component #3 – 3 Triad Cables:

- Conductors:** 28 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer

Component #4 – 1 Shielded Twisted Pair:

- Conductors:** 28 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer
- Drain Wire:** 28 AWG stranded tin plated copper
- Shield:** Aluminum/polyester blue foil

Component #5 – 2 Twisted Pairs:

- Conductors:** 24 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer

Component #6 – 1 Single Wire:

- Conductors:** 22 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer

Component #7 – 3 Twisted Pairs:

- Conductors:** 22 AWG stranded tin plated copper
- Insulation:** High temperature fluoropolymer

Overall Cable

- Binder:** Nylon Tape
- Shield:** 36 AWG tin plated copper braid
- Outer Jacket:** Black pressure extruded polyurethane

Physical Characteristics

- Outer Diameter:** 0.490 inches nominal
- Bend Radius:** 3.0 inches minimum
- Weight:** 14.5 lbs/100 ft
- Temperature Range:** -55° to +85° C

Electrical Characteristics

Component 1

- Impedance:** 100 ± 10 Ohms nominal
- Skew (internal):** 40 ps/meter maximum
- Skew (pair to pair):** 50 ps/meter nom (within 5 pair)
- Velocity of Propagation:** 75% nominal
- DC Resistance:** 0.060 Ohms/ft nominal

Components 2, 3, and 4

- Voltage Rating:** 150 volts (rms)
- DC Resistance:** 0.063 Ohms/ft nominal

Component 5

- Voltage Rating:** 150 volts (rms)
- DC Resistance:** 0.029 Ohms/ft nominal

Components 6 and 7

- Voltage Rating:** 150 volts (rms)
- DC Resistance:** 0.016 Ohms/ft nominal

Applications

Goodrich Electronic Flight Bag (EFB) Display Composite Cable.





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ECS P/N 382444B Continued:

Color Code:

Component #1 – 10 Shielded Twisted Pairs:

- Pair 1: White/Green, White/Black
- Pair 2: White/Blue, White/Brown
- Pair 3: White/Violet, White/Red
- Pair 4: White/Gray, White/Orange
- Pair 5: White/Brown, White/Yellow
- Pair 6: White/Black, White/Green
- Pair 7: White/Brown, White/Blue
- Pair 8: White/Red, White/Violet
- Pair 9: White/Orange, White/Gray
- Pair 10: White/Yellow, White/Brown

Component #2 – 2 Single Wires:

- Wire 1: Black/White
- Wire 2: Red/White

Component #3 – 3 Twisted Triads:

- Triad 1: Black, Red, White
- Triad 2: Green, Orange, Blue
- Triad 3: Brown, Yellow, Violet

**Component #4 – 1 Shielded Twisted Pairs:
Single Pair: Red/Black, Red**

Component #5 – 2 Twisted Pairs:

- Pair 1: Yellow/Black, Yellow
- Pair 2: Orange/Black, Orange

Component #6 – 1 Single Wire:

Brown/White

Component #7 – 3 Twisted Pairs:

- Pair 1: White/Black, White
- Pair 2: Green/Black, Green
- Pair 3: Blue/Black, Blue

Environmental:

- ECS Composite cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

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