

Product: [734AS6P](#) 



DS-3 and DS-4, 734A Series, 6 Coax 20 AWG BC, Banana Peel, CMP

Product Description

734A Series, 6 Coax 20 AWG solid bare copper conductors, foam FEP insulation, Beldfoil® + tinned copper braid shield (85% coverage), CMP rated, Flamarrest® low smoke PVC jackets in a Banana Peel® construction.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 6 |

| | |
|------------------|---|
| Conductor Count: | 6 |
|------------------|---|

Insulation

| Material | Material Trade Name | Nominal Diameter |
|---|---------------------|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | Teflon® | 0.148 in |

Inner Shield

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-------------------------|---------------------|--------------|
| Tape | 1 | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% |
| Braid | 2 | Tinned Copper (TC) | | 85% |

Inner Jacket

| Material | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PVC - Polyvinyl Chloride | Flamarrest® | 0.213 in |

Outer Jacket

| Nominal Diameter |
|------------------|
| 0.675 in |

Construction and Dimensions

Cabling 2

| Filler |
|---------------------|
| Extruded PVC Spline |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Inner Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 10.1 Ohm/1000ft | 3 Ohm/1000ft | 3.0 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 17.3 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.095 µH/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm |

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 15 - 95 MHz | 30 dB |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.29 ns/ft | 79% |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 1.024 MHz | 0.29 dB/100ft |
| 4.224 MHz | 0.54 dB/100ft |
| 17.184 MHz | 1.11 dB/100ft |
| 22.368 MHz | 1.27 dB/100ft |
| 25.92 MHz | 1.37 dB/100ft |
| 69.632 MHz | 2.29 dB/100ft |
| 77.76 MHz | 2.43 dB/100ft |
| 137.088 MHz | 3.31 dB/100ft |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V |

| | |
|-----------------------------------|---|
| Electrical Characteristics Notes: | Return Loss: Fixed bridge and termination |
|-----------------------------------|---|

Temperature Range

| | |
|-----------------------|--------------|
| Operating Temp Range: | 0°C To +75°C |
|-----------------------|--------------|

Mechanical Characteristics

| | |
|------------------------------|----------------|
| Bulk Cable Weight: | 230 lbs/1000ft |
| Min Bend Radius (Overall): | 6.75 in |
| Min Bend Radius (Each Coax): | 2.2 in |

Standards

| | |
|-----------------------|-------------------------------------|
| NEC/(UL) Compliance: | CMP |
| CEC/C(UL) Compliance: | CMP |
| RG Type: | 59 |
| Other Specification: | Telcordia Specification GR-139-Core |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| Environmental Space: | Indoor - Plenum |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LSOH, Toxicity Testing

| | |
|-------------------|----------|
| UL Flammability: | NFPA 262 |
| CSA Flammability: | FT6 |

| | |
|--------------------|-----------|
| UL voltage rating: | 300 V RMS |
|--------------------|-----------|

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

| | |
|--------------------|-------|
| Non-Plenum Number: | 734A6 |
|--------------------|-------|

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|-----------------|-------|-------------|----------|--------------|
| 734AS6P 008500 | Gray | Reel | 500 ft | 612825184218 |
| 734AS6P 0081000 | Gray | Reel | 1,000 ft | 612825184119 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.175 Revision Date: 12-15-2021 |
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