



Part Number: 1695A

Serial Digital Coax, RG6, #18 Solid BC, Foil + 95% TC braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, RG6 18 AWG solid bare copper conductor, foam FEP core, Duofoil®+95% tinned copper braid, Flamarrest® jacket

Technical Specifications

Product Overview

| | |
|----------------------|-----------------|
| Environmental Space: | Indoor - Plenum |
|----------------------|-----------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 18 | Solid | BC - Bare Copper | 0.04 in | 1 |

| | |
|------------------|--------|
| Conductor Count: | 1 |
| Conductor Size: | 18 AWG |

Insulation

| Material | Material Trade Name | Nominal Diameter |
|--|---------------------|------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | Teflon® | 0.17 in |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape | 1 | Aluminum/Polyester/Aluminum | Duofoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 95 % |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter |
|---------------------------------------|---------------------|------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flamarrest® | 0.229 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.4 Ohm/1000ft | 2.8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.2 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.103 µH/ft |

Impedance

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

Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5 - 1600 MHz | 23 dB |
| 1600 - 4500 MHz | 21 dB |
| 4500 - 6000 MHz | 15 dB |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.24 dB/100ft |
| 3.58 MHz | 0.45 dB/100ft |
| 5 MHz | 0.55 dB/100ft |
| 7 MHz | 0.65 dB/100ft |
| 10 MHz | 0.75 dB/100ft |
| 67.5 MHz | 1.74 dB/100ft |
| 71.5 MHz | 1.78 dB/100ft |
| 88.5 MHz | 1.94 dB/100ft |
| 100 MHz | 2.1 dB/100ft |
| 135 MHz | 2.4 dB/100ft |
| 143 MHz | 2.5 dB/100ft |
| 180 MHz | 2.8 dB/100ft |
| 270 MHz | 3.4 dB/100ft |
| 360 MHz | 4.0 dB/100ft |
| 540 MHz | 5.2 dB/100ft |
| 720 MHz | 6.1 dB/100ft |
| 750 MHz | 6.2 dB/100ft |
| 1000 MHz | 7.4 dB/100ft |
| 1500 MHz | 9.5 dB/100ft |
| 2000 MHz | 11.3 dB/100ft |
| 2250 MHz | 12.2 dB/100ft |
| 3000 MHz | 14.6 dB/100ft |
| 4500 MHz | 18.6 dB/100ft |
| 6000 MHz | 22.4 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.22 ns/ft | 83 % |

Voltage

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

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

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 75°C |
| Operating Temp Range: | -20°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| UV Resistance: | No |
| Bulk Cable Weight: | 41 lbs/1000ft |
| Max Recommended Pulling Tension: | 69 lbs |
| Min Bend Radius/Minor Axis: | 2.5 in |

Standards

| | |
|--------------------------|----------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass: | Eca |
| RG Type: | 6/U Type |

Applicable Environmental and Other Programs

| | |
|--------------------------------|-----|
| EU Directive 2000/53/EC (ELV): | Yes |
|--------------------------------|-----|

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Aerial: | No |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | No |
| Suitability - Sunlight Resistance: | No |

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: | 1694A |
|--------------------|-------|

Variants

| Item # | Color | Footnote |
|---------------|-------------|----------|
| 1695A 0101000 | Black | C |
| 1695A 010500 | Black | C |
| 1695A 0105000 | Black | C |
| 1695A 0061000 | Blue, Light | C |
| 1695A 006500 | Blue, Light | |
| 1695A 006500 | Blue, Light | |
| 1695A 0011000 | Brown | C |
| 1695A 0081000 | Gray | C |
| 1695A N3U1000 | Green, Mil | C |
| 1695A 8771000 | Natural | C |
| 1695A 877500 | Natural | Z |
| 1695A 0031000 | Orange | C |
| 1695A 0021000 | Red | C |
| 1695A 0071000 | Violet | C |
| 1695A 0075000 | Violet | |
| 1695A 0075000 | Violet | |
| 1695A 0041000 | Yellow | C |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

| | |
|-----------|--|
| Footnote: | Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN. |
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Product Notes

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| Notes: | Print legend includes sequential footage marks. |
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