

Part Number: 1506A Serial Digital Coax, RG59, 20 AWG Solid BC, Duofoil® + 95% TC Braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, RG59 20 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 |
|--------------------|-----------|------------------|------------------|-------------|
| 20 | Solid | BC - Bare Copper | 0.032 in | 1 |
| Conductor Count: 1 | | | | |
| Conductor Size: | | 20 AWG | | |

Insulation

| Material | Material Trade Name | Nominal Diameter |
|--|---------------------|------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | Teflon® | 0.133 in |

Outer Shield Material

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

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PVC - Polyvinyl Chloride | Flamarrest® | 0.196 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 10 Ohm/1000ft | 3.2 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.1 pF/ft |

Inductance

Nominal Inductance 0.097 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 | 0.29 dB/100ft |
| 3.58 MHz | 0.62 dB/100ft |
| 5 MHz | 0.7 dB/100ft |
| 7 MHz | 0.82 dB/100ft |
| 10 MHz | 1.05 dB/100ft |
| 67.5 MHz | 2.2 dB/100ft |
| 71.5 MHz | 2.25 dB/100ft |
| 100 MHz | 2.7 dB/100ft |
| 135 MHz | 3.2 dB/100ft |
| 143 MHz | 3.25 dB/100ft |
| 180 MHz | 3.65 dB/100ft |
| 270 MHz | 4.55 dB/100ft |
| 360 MHz | 5.25 dB/100ft |
| 540 MHz | 6.4 dB/100ft |
| 720 MHz | 7.3 dB/100ft |
| 750 MHz | 7.5 dB/100ft |
| 1000 MHz | 9.4 dB/100ft |
| 1500 MHz | 11.3 dB/100ft |
| 2250 MHz | 14.4 dB/100ft |
| 3000 MHz | 17.2 dB/100ft |
| 4500 MHz | 21.8 dB/100ft |
| 6000 MHz | 25.9 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.21 ns/ft | 84 % |

Voltage

| UL Voltage Rating | L |
|-------------------|---|
| | |

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: | 29 lbs/1000ft |
| Max Recommended Pulling Tension: | 68 lbs |
| Min Bend Radius/Minor Axis: | 2 in |

Standards

| NEC/(UL) Specification: | CMP |
|--------------------------|-----------|
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass: | Eca |
| RG Type: | 59/U Туре |

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, LS0H, 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: |
|------------|---------|
| | |

Variants

| variants | | |
|---------------|-------------|----------|
| ltem # | Color | Footnote |
| 1506A 0101000 | Black | С |
| 1506A 010500 | Black | СZ |
| 1506A 0061000 | Blue, Light | СZ |
| 1506A 0011000 | Brown | СZ |
| 1506A 0081000 | Gray | Z |
| 1506A N3U1000 | Green, Mil | СZ |
| 1506A 8771000 | Natural | С |
| 1506A 877500 | Natural | СZ |
| 1506A 0031000 | Orange | Z |
| 1506A 0021000 | Red | СZ |
| 1506A 0071000 | Violet | CZ |
| 1506A 0041000 | Yellow | Z |
| Footnote: | | |
| Footnote: | | |

Product Notes

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

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