



**Product:** [1505F](#)

75 Ohm SDI Coax, RG-59, 22 AWG Str BC, Double 95% TC Braid, PVC Jkt, CM, Flexible

## Product Description

75 Ohm SDI Coax, RG-59, 22 AWG (7x29) Bare Copper Conductor, PE Insulation, Double 95% Tinned Copper Braid Shield, PVC Jacket, CM, Flexible

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Digital Video, 6 Gb/s UHD TV, HD-SDI 1080p |
|------------------------|--|

### Construction Details

|          |    |
|----------|----|
| RG Type: | 59 |
|----------|----|

#### Conductor

| AWG | Stranding | Nom. Diameter | Material                       |
|-----|-----------|---------------|--------------------------------|
| 22  | 7x29      | 0.032 in      | BC-C - Bare Copper (Compacted) |

#### Insulation

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.145 in      |

#### Outer Shield Material

| Layer | Outer Shield Type | Material           | Coverage |
|-------|-------------------|--------------------|----------|
| 1     | Braid             | Tinned Copper (TC) | 95%      |
| 2     | Braid             | Tinned Copper (TC) | 95%      |

#### Outer Jacket Material

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.242 in      |

### Electrical Characteristics

#### Return Loss (RL)

| Frequency [MHz] | Min. Return Loss [dB] |
|-----------------|-----------------------|
| 5 - 850 MHz     | 20 dB                 |
| 850 - 6000 MHz  | 15 dB                 |

#### Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz     | 0.2 dB/100ft                |
| 3.58 MHz  | 0.5 dB/100ft                |
| 5 MHz     | 0.6 dB/100ft                |
| 6 MHz     | 0.67 dB/100ft               |
| 7 MHz     | 0.73 dB/100ft               |
| 10 MHz    | 0.9 dB/100ft                |
| 12 MHz    | 0.98 dB/100ft               |
| 25 MHz    | 1.44 dB/100ft               |
| 55 MHz    | 2.2 dB/100ft                |

|          |               |
|----------|---------------|
| 67.5 MHz | 2.4 dB/100ft  |
| 71.5 MHz | 2.5 dB/100ft  |
| 88.5 MHz | 2.8 dB/100ft  |
| 100 MHz  | 3 dB/100ft    |
| 135 MHz  | 3.5 dB/100ft  |
| 143 MHz  | 3.6 dB/100ft  |
| 180 MHz  | 4.1 dB/100ft  |
| 270 MHz  | 5.1 dB/100ft  |
| 360 MHz  | 6 dB/100ft    |
| 540 MHz  | 7.5 dB/100ft  |
| 720 MHz  | 8.9 dB/100ft  |
| 750 MHz  | 9.1 dB/100ft  |
| 1000 MHz | 10.8 dB/100ft |
| 1500 MHz | 13.6 dB/100ft |
| 2000 MHz | 16.1 dB/100ft |
| 2250 MHz | 17.3 dB/100ft |
| 3000 MHz | 20.7 dB/100ft |
| 4500 MHz | 26.7 dB/100ft |
| 6000 MHz | 32.2 dB/100ft |

#### Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedence | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 12.2 Ohm/1000ft    | 2.4 Ohm/1000ft        | 17.0 pF/ft                      | 75 Ohm         | 80%           |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CM)        |

## Mechanical Characteristics

#### Temperature

| UL Rating | Operating      |
|-----------|----------------|
| 60°C      | -35°C to +75°C |

#### Bend Radius

| Installation Min. |
|-------------------|
| 2.4 in            |

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 42 lbs/1000ft |
| Max. Pull Tension: | 73 lbs        |

## Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor (Not Riser or Plenum), Indoor  |
| Sustainability:                 | CA Prop 65  |
| Flammability / Fire Resistance: | UL1685 UL Loading   |
| NEC / UL Compliance:            | CM  |
| CEC / C(UL) Compliance:         | CM  |
| European Directive Compliance:  | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)   |

## History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.329 Revision Date: 09-30-2020 |
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