



**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 UHDTV, HD-SDI 1080p |
|------------------------|-------------------------------------------|

**Construction Details**

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

**Conductor**

| Size   | Stranding | Nom. Diameter | Material                       |
|--------|-----------|---------------|--------------------------------|
| 21 AWG | 7x29      | 0.032 in      | BC-C - Bare Copper (Compacted) |

**Insulation**

| Material                 | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.145 in (3.68 mm)       | White      |

**Outer Shield**

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

**Outer Jacket**

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.242 in (6.15 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.242 in (6.15 mm) |
|-----------------------------------|--------------------|

**Electrical Characteristics**

**Return Loss (RL)**

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

**Attenuation**

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 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. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 12.2 Ohm/1000ft    | 2.4 Ohm/1000ft (7.9 Ohm/km) | 17.0 pF/ft (55.8 pF/m)          | 75 Ohm                        | 80%                    |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Installation Min. |
|-------------------|
| 2.4 in (61 mm)    |

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 73 lbs (33 kg)           |
| Bulk Cable Weight: | 42 lbs/1000ft (63 kg/km) |

Standards and Compliance

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor                                                                                             |
| Sustainability:                  | CA Prop 65                                                                                                                       |
| Flammability / Reaction to Fire: | UL1685 UL Loading                                                                                                                |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca                                                                                          |
| NEC / UL Compliance:             | CM                                                                                                                               |
| CEC / C(UL) Compliance:          | CM                                                                                                                               |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:        | UKCA Mark                                                                                                                        |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                                  |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.504 Revision Date: 04-24-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color        | Putup Type | Length   | UPC          |
|---------------|--------------|------------|----------|--------------|
| 1505F B591000 | Black, Matte | Reel       | 1,000 ft | 612825356295 |
| 1505F B593000 | Black, Matte | Reel       | 3,000 ft | 612825439929 |
| 1505F G7X1000 | Blue, Matte  | Reel       | 1,000 ft | 612825356417 |

|               |               |      |          |              |
|---------------|---------------|------|----------|--------------|
| 1505F G7X3000 | Blue, Matte   | Reel | 3,000 ft | 612825439950 |
| 1505F G7W1000 | Green, Matte  | Reel | 1,000 ft | 612825358367 |
| 1505F G7W3000 | Green, Matte  | Reel | 3,000 ft | 612825440000 |
| 1505F G8L1000 | Orange, Matte | Reel | 1,000 ft | 612825356509 |
| 1505F G8L3000 | Orange, Matte | Reel | 3,000 ft | 612825439967 |
| 1505F G7V1000 | Red, Matte    | Reel | 1,000 ft | 612825356288 |
| 1505F G7V3000 | Red, Matte    | Reel | 3,000 ft | 612825439943 |
| 1505F Z4B3000 | Violet        | Reel | 3,000 ft | 612825439974 |
| 1505F Z4B1000 | Violet Z4B    | Reel | 1,000 ft | 612825356493 |
| 1505F G7Y1000 | White, Matte  | Reel | 1,000 ft | 612825356363 |
| 1505F 0041000 | Yellow        | Reel | 1,000 ft | 612825356486 |
| 1505F 0043000 | Yellow        | Reel | 3,000 ft | 612825440017 |

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