



**Product:** [1694A](#) 

75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Foil + 95% TC Braid, PVC Jkt, CMR

## Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMR

## Technical Specifications

### Product Overview

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

### Construction Details

|          |   |
|----------|---|
| RG Type: | 6 |
|----------|---|

#### Conductor

| AWG | Stranding | Nom. Diameter | Material         |
|-----|-----------|---------------|------------------|
| 18  | Solid     | 0.040 in      | BC - Bare Copper |

#### Insulation

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.180 in      |

#### Outer Shield

| Layer | Outer Shield Type | Material                      | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1     | Tape              | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%     |
| 2     | Braid             | Tinned Copper (TC)            |                     | 95%      |

#### Outer Jacket

| Material                 | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.274 in      |

### Electrical Characteristics

#### Return Loss (RL)

| Frequency [MHz] | Min. Return Loss [dB] |
|-----------------|-----------------------|
| 5 - 1600 MHz    | 23 dB                 |
| 1600 - 4500 MHz | 21 dB                 |
| 4500 - 6000 MHz | 15 dB                 |

#### Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz     | 0.24 dB/100ft               |
| 3.58 MHz  | 0.44 dB/100ft               |
| 5 MHz     | 0.52 dB/100ft               |
| 6 MHz     | 0.57 dB/100ft               |
| 7 MHz     | 0.61 dB/100ft               |
| 10 MHz    | 0.71 dB/100ft               |
| 12 MHz    | 0.78 dB/100ft               |
| 25 MHz    | 1.08 dB/100ft               |

|          |               |
|----------|---------------|
| 67.5 MHz | 1.65 dB/100ft |
| 71.5 MHz | 1.69 dB/100ft |
| 88.5 MHz | 1.86 dB/100ft |
| 100 MHz  | 1.95 dB/100ft |
| 135 MHz  | 2.24 dB/100ft |
| 143 MHz  | 2.3 dB/100ft  |
| 180 MHz  | 2.57 dB/100ft |
| 270 MHz  | 3.17 dB/100ft |
| 360 MHz  | 3.69 dB/100ft |
| 540 MHz  | 4.5 dB/100ft  |
| 720 MHz  | 5.3 dB/100ft  |
| 750 MHz  | 5.4 dB/100ft  |
| 1000 MHz | 6.3 dB/100ft  |
| 1500 MHz | 7.8 dB/100ft  |
| 2000 MHz | 9.2 dB/100ft  |
| 2250 MHz | 9.8 dB/100ft  |
| 3000 MHz | 11.5 dB/100ft |
| 4500 MHz | 14.5 dB/100ft |
| 6000 MHz | 17.7 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|-------------------------------|---------------|
| 6.4 Ohm/1000ft     | 3.8 Ohm/1000ft        | 16.2 pF/ft                      | 75 Ohm                        | 82%           |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMR, CMG)  |

Mechanical Characteristics

Temperature

| UL Rating | Operating      |
|-----------|----------------|
| 60°C      | -20°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 2.75 in           |

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 41 lbs/1000ft |
| Max. Pull Tension: | 69 lbs        |

Standards and Compliance

|                                 |                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:      | Indoor/Outdoor, Indoor, UV Resistance                                                                                            |
| Sustainability:                 | CA Prop 65                                                                                                                       |
| Flammability / Fire Resistance: | UL1666 Vertical Shaft, FT4                                                                                                       |
| NEC / UL Compliance:            | CMR                                                                                                                              |
| CEC / C(UL) Compliance:         | CMG                                                                                                                              |
| 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) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)                                                                                                  |
| Plenum Number:                  | 1695A                                                                                                                            |

Product Notes

|        |                                                                                                                         |
|--------|-------------------------------------------------------------------------------------------------------------------------|
| Notes: | Also available in multi-coax bundled versions. See 7710A through 7713A. Print legend includes sequential footage marks. |
|--------|-------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.394 Revision Date: 05-26-2021 |
|----------------------|--------------------------------------------------|

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