



**Product:** [4731R](#) 

4K UHD Coax for 12G-SDI, 75 Ohm, RG-11, 14 AWG Solid SC, Tri-Shield, PVC Jkt, CMR

## Product Description

75 Ohm SDI Coax, RG-11, 14 AWG Solid Silvered Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid + Foil Shield, PVC Jacket, CMR

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Ultra-High Definition Digital Video, 4K Single-link 12 Gb/s UHD TV, 4K D-Cinema, 8K Quad-link UHD TV, HD-SDI 1080p |
|------------------------|--|

### Construction Details

|          |    |
|----------|----|
| RG Type: | 11 |
|----------|----|

#### Conductor

| Size   | Stranding | Nom. Diameter | Material             |
|--------|-----------|---------------|----------------------|
| 14 AWG | Solid     | 0.064 in      | SC - Silvered Copper |

#### Insulation

| Material                 | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.280 in (7.11 mm)       | White      |

#### Outer Shield

| Layer | Outer Shield Type | Material                      | Material Trade Name | Coverage | Notes  |
|-------|-------------------|-------------------------------|---------------------|----------|--|
| 1     | Tape              | Tri-Laminate (Alum+Poly+Alum) | Duobond® II         | 100%     |  |
| 2     | Braid             | Tinned Copper (TC)            |                     | 95%      |  |
| 3     | Tape              | Bi-Laminate (Alum+Poly)       | Beldfoil®           | 100%     | With Shorting Fold and Bonded to inside of jacket for easy preparation |

#### Outer Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.400 in (10.2 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.400 in (10.2 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Return Loss

| Frequency        | Min. Return Loss |
|------------------|------------------|
| 5 - 1600 MHz     | 23 dB            |
| 1600 - 4500 MHz  | 21 dB            |
| 4500 - 12000 MHz | 15 dB            |

#### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.16 dB/100ft    |
| 3.58 MHz  | 0.30 dB/100ft    |
| 5 MHz     | 0.34 dB/100ft    |
| 6 MHz     | 0.37 dB/100ft    |
| 7 MHz     | 0.39 dB/100ft    |
| 10 MHz    | 0.45 dB/100ft    |
| 12 MHz    | 0.49 dB/100ft    |

|           |                |
|-----------|----------------|
| 25 MHz    | 0.67 dB/100ft  |
| 55 MHz    | 0.95 dB/100ft  |
| 67.5 MHz  | 1.04 dB/100ft  |
| 71.5 MHz  | 1.07 dB/100ft  |
| 88.5 MHz  | 1.17 dB/100ft  |
| 100 MHz   | 1.24 dB/100ft  |
| 135 MHz   | 1.41 dB/100ft  |
| 143 MHz   | 1.45 dB/100ft  |
| 180 MHz   | 1.61 dB/100ft  |
| 270 MHz   | 1.96 dB/100ft  |
| 360 MHz   | 2.27 dB/100ft  |
| 540 MHz   | 2.81 dB/100ft  |
| 720 MHz   | 3.27 dB/100ft  |
| 750 MHz   | 3.34 dB/100ft  |
| 1000 MHz  | 3.89 dB/100ft  |
| 1500 MHz  | 4.83 dB/100ft  |
| 2000 MHz  | 5.65 dB/100ft  |
| 2250 MHz  | 6.02 dB/100ft  |
| 3000 MHz  | 7.07 dB/100ft  |
| 4500 MHz  | 8.81 dB/100ft  |
| 6000 MHz  | 10.45 dB/100ft |
| 12000 MHz | 16.39 dB/100ft |

#### Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR       | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 2.5 Ohm/1000ft     | 1.3 Ohm/1000ft (4.3 Ohm/km) | 15.5 pF/ft (50.9 pF/m)          | 75 Ohm                        | 85%                    |

#### Voltage

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

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

| Installation Min. |
|-------------------|
| 4 in (100 mm)     |

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 145 lbs (65.8 kg) |
| Bulk Cable Weight: | 86 lbs/1000ft     |

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor - Riser, Indoor, Aerial - Black only, When supported by messenger wire  |
| Sustainability:                  | CA Prop 65   |
| Flammability / Reaction to Fire: | UL1666 Vertical Shaft  |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca  |
| 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) |
| UK Regulation Compliance:        | UKCA Mark  |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)  |
| Plenum Number:                   | 4731P  |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.400 Revision Date: 02-20-2026 |
|----------------------|--|

## Part Numbers

#### Variants

| Item # | Color | Putup Type | Length | UPC |
|--------|-------|------------|--------|-----|
|--------|-------|------------|--------|-----|

|               |             |      |          |              |
|---------------|-------------|------|----------|--------------|
| 4731R 0101000 | Black       | Reel | 1,000 ft | 612825396963 |
| 4731R 0104000 | Black       | Reel | 4,000 ft | 612825436720 |
| 4731R 0105000 | Black       | Reel | 5,000 ft | 612825396970 |
| 4731R 0061000 | Blue, Light | Reel | 1,000 ft | 612825396949 |
| 4731R N3U1000 | Mil Green   | Reel | 1,000 ft | 612825396918 |
| 4731R 0031000 | Orange      | Reel | 1,000 ft | 612825396932 |
| 4731R 0071000 | Purple      | Reel | 1,000 ft | 612825396956 |
| 4731R 0021000 | Red         | Reel | 1,000 ft | 612825396925 |

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