



Product: [4794ANH](#)

12 GHz Coax, 4K UHD Precision Video Cable, RG-7 Series, 75 Ohm, 16 AWG Solid SC, LSZH Jkt

Product Description

12 GHz, 4K UHD Precision Video Cable, RG-7 Series, 75 Ohm 16 AWG solid 0.051" silver-plated copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage) plus Beldfoil® with shorting fold, LSZH jacket

Technical Specifications

Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | SMPTE 2082-1 12 Gb/s UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080P |
|------------------------|---|

Construction Details

|              |   |
|--------------|---|
| Series Type: | 7 |
|--------------|---|

Conductor

| No. of Elements | Size   | Stranding | Nom. Diameter | Material             |
|-----------------|--------|-----------|---------------|----------------------|
| 1               | 16 AWG | Solid     | 0.051 in      | SC - Silvered Copper |

Insulation

| Material                 | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.225 in (5.72 mm)       | White      |

|              |              |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

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%      |
| 3     | Tape              | Bi-Laminate (Alum+Poly)       | Beldfoil®           | 100%     |

|              |                              |
|--------------|------------------------------|
| Table Notes: | Tape is bonded to dielectric |
|--------------|------------------------------|

Outer Jacket

| Material  | Nom. Diameter      |
|---|--------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.320 in (8.13 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.320 in (8.13 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Return Loss (RL)

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

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.26 dB/100ft    |
| 3.58 MHz  | 0.43 dB/100ft    |

|           |                |
|-----------|----------------|
| 5 MHz     | 0.50 dB/100ft  |
| 6 MHz     | 0.52 dB/100ft  |
| 7 MHz     | 0.55 dB/100ft  |
| 10 MHz    | 0.63 dB/100ft  |
| 12 MHz    | 0.66 dB/100ft  |
| 25 MHz    | 0.88 dB/100ft  |
| 55 MHz    | 1.21 dB/100ft  |
| 67.5 MHz  | 1.31 dB/100ft  |
| 71.5 MHz  | 1.34 dB/100ft  |
| 88.5 MHz  | 1.47 dB/100ft  |
| 100 MHz   | 1.54 dB/100ft  |
| 135 MHz   | 1.75 dB/100ft  |
| 143 MHz   | 1.79 dB/100ft  |
| 180 MHz   | 1.98 dB/100ft  |
| 270 MHz   | 2.40 dB/100ft  |
| 360 MHz   | 2.76 dB/100ft  |
| 540 MHz   | 3.41 dB/100ft  |
| 720 MHz   | 3.96 dB/100ft  |
| 750 MHz   | 4.05 dB/100ft  |
| 1000 MHz  | 4.70 dB/100ft  |
| 1500 MHz  | 5.83 dB/100ft  |
| 2000 MHz  | 6.80 dB/100ft  |
| 2250 MHz  | 7.25 dB/100ft  |
| 3000 MHz  | 8.48 dB/100ft  |
| 4500 MHz  | 10.66 dB/100ft |
| 6000 MHz  | 12.47 dB/100ft |
| 12000 MHz | 19.45 dB/100ft |

Electricals

| Nom. Conductor DCR       | Nom. Outer Shield DCR       | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 4 Ohm/1000ft (13 Ohm/km) | 1.9 Ohm/1000ft (6.2 Ohm/km) | 16.0 pF/ft (52.5 pF/m)          | 75 Ohm                        | 85%                    |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

|                                   |   |
|-----------------------------------|---|
| Electrical Characteristics Notes: | Return Loss: Fixed bridge and termination |
|-----------------------------------|---|

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -30°C To +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.2 in (81 mm)  | 3.2 in (81 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 84 lbs (38 kg) |
| Bulk Cable Weight: | 59 lbs/1000ft  |

Standards and Compliance

|                                |   |
|--------------------------------|---|
| Environmental Suitability:     | Indoor - Euroclass Dca, Indoor, Aerial - Black only, When supported by messenger wire |
| CPR Compliance:                | CPR Euroclass: Dca-s1,d1,a1; CPR UKCA Class: Dca-s1,d1,a1                             |
| European Directive Compliance: | EU CE Mark, 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)   |

Product Notes

|        |  |
|--------|--|
| Notes: | PF_4794ANH 1)# Elements@Conductor1:-In Stibo it was Blank and now changed to 1. 2)Size@Conductor1 :-In Stibo it was 16 now changed to 16AWG. 3)Diameter@Conductor1(Nominal)- In Stibo it was 0.051 in Now Changed to 0.053 in. 3)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White. 4)Material@Conductor1-In stibo it is Silvered Copper But in BPCS its Showing ANNEALED SOLID SILVER COATED COPPER WIRE 5)Cable Diameter (Nominal)- In Stibo it was Blank Now Changed to 0.320 in. 6)Bulk Cable Weight - In stibo it was 56 lbs/1000 ft Now changed to 59 lbs/1000 ft. |
|--------|--|

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.188 Revision Date: 04-25-2023 |
|----------------------|--|

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