



**Product:** [4855R](#)

4K UHD Coax for 12G-SDI, 75 Ohm, Mini RG-59, 23 AWG Solid SC, Foil + 95% TC Braid, PVC Jkt, CMR

### Product Description

12 GHz, 4K UHD Precision Video Cable, Mini RG-59, 75 Ohm 23 AWG solid 0.023" silver-plated copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage), PVC Jacket

### Technical Specifications

#### Product Overview

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

#### Construction Details

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

#### Conductor

| Size   | Stranding | Nom. Diameter | Material             |
|--------|-----------|---------------|----------------------|
| 23 AWG | Solid     | 0.023 in      | SC - Silvered Copper |

#### Insulation

| Material                 | Nom. Insulation Diameter |
|--------------------------|--------------------------|
| PE - Polyethylene (Foam) | 0.102 in (2.59 mm)       |

#### Outer Shield

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

#### Outer Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.159 in (4.04 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.159 in (4.04 mm) |
|-----------------------------------|--------------------|

#### Electrical Characteristics

#### Return Loss (RL)

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

#### Electricals

| Nom. Conductor DCR            | Nom. Outer Shield DCR      | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|-------------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 19.7 Ohm/1000ft (64.6 Ohm/km) | 3.8 Ohm/1000ft (12 Ohm/km) | 16.3 pF/ft (53.5 pF/m)          | 75 Ohm                        | 82%                    |

#### Voltage

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

#### Mechanical Characteristics

## Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -30°C to +75°C |

## Bend Radius

| Installation Min. |
|-------------------|
| 1.6 in            |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 33 lbs (15 kg) |
| Bulk Cable Weight: | 17 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, FT4                                                                                                       |
| 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:                   | 4855P                                                                                                                            |

## History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.287 Revision Date: 01-04-2023 |
|----------------------|--------------------------------------------------|

## Part Numbers

### Variants

| Item #         | Color       | Putup Type | Length    | UPC          |
|----------------|-------------|------------|-----------|--------------|
| 4855R 0101000  | Black       | Reel       | 1,000 ft  | 612825390572 |
| 4855R 0105000  | Black       | Reel       | 5,000 ft  | 612825390589 |
| 4855R 01010000 | Black       | Reel       | 10,000 ft | 612825436362 |
| 4855R 0061000  | Blue, Light | Reel       | 1,000 ft  | 612825395362 |
| 4855R 0065000  | Blue, Light | Reel       | 5,000 ft  | 612825436591 |
| 4855R 00610000 | Blue, Light | Reel       | 10,000 ft | 612825436218 |
| 4855R N3U5000  | Green, Mil  | Reel       | 5,000 ft  | 612825436652 |
| 4855R N3U10000 | Green, Mil  | Reel       | 10,000 ft | 612825436447 |
| 4855R N3U1000  | Mil Green   | Reel       | 1,000 ft  | 612825395355 |
| 4855R 0031000  | Orange      | Reel       | 1,000 ft  | 612825395249 |
| 4855R 0035000  | Orange      | Reel       | 5,000 ft  | 612825436560 |
| 4855R 00310000 | Orange      | Reel       | 10,000 ft | 612825436195 |
| 4855R 0071000  | Purple      | Reel       | 1,000 ft  | 612825395263 |
| 4855R 0021000  | Red         | Reel       | 1,000 ft  | 612825395232 |
| 4855R 0025000  | Red         | Reel       | 5,000 ft  | 612825436522 |
| 4855R 00210000 | Red         | Reel       | 10,000 ft | 612825436164 |
| 4855R 0075000  | Violet      | Reel       | 5,000 ft  | 612825436607 |
| 4855R 00710000 | Violet      | Reel       | 10,000 ft | 612825436225 |
| 4855R 0095000  | White       | Reel       | 5,000 ft  | 612825436645 |
| 4855R 00910000 | White       | Reel       | 10,000 ft | 612825436461 |
| 4855R 0041000  | Yellow      | Reel       | 1,000 ft  | 612825395256 |
| 4855R 0045000  | Yellow      | Reel       | 5,000 ft  | 612825436584 |
| 4855R 00410000 | Yellow      | Reel       | 10,000 ft | 612825436201 |

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