Belden

# Product: 4855ANH

12 GHz Coax, 4K UHD Precision Video Coax, RG-59 Mini, 75 Ohm, 23 AWG Solid SC, LSZH Jkt

## Product Description

12 GHz Coax, 4K UHD Precision Video Cable, RG-59 Mini, 75 Ohm, 23 AWG solid .023" silver plated copper conductor, gas-injected foam HDPE insulation, Duofoil® bonded to the core + tinned copper braid shield (95% coverage), 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

**Conductor**

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|---|---|---|---|---|
| 1 | 23 AWG | Solid | 0.023 in | SC - Silvered Copper |

**Insulation**

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

| | |
|---|---|
| Insulation 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% |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.159 in (4.04 mm) |

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

### Electrical Characteristics

**Return Loss**

| 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 | 0.39 dB/100ft |
| 3.58 MHz | 0.78 dB/100ft |
| 5 MHz | 0.92 dB/100ft |
| 6 MHz | 1 dB/100ft |
| 7 MHz | 1.08 dB/100ft |
| 10 MHz | 1.2 dB/100ft |
| 12 MHz | 1.3 dB/100ft |

| | |
|---|---|
| 25 MHz | 1.8 dB/100ft |
| 55 MHz | 2.6 dB/100ft |
| 67.5 MHz | 2.83 dB/100ft |
| 71.5 MHz | 2.93 dB/100ft |
| 88.5 MHz | 3.22 dB/100ft |
| 100 MHz | 3.39 dB/100ft |
| 135 MHz | 3.84 dB/100ft |
| 143 MHz | 4.00 dB/100ft |
| 180 MHz | 4.41 dB/100ft |
| 270 MHz | 5.44 dB/100ft |
| 360 MHz | 6.34 dB/100ft |
| 540 MHz | 7.85 dB/100ft |
| 720 MHz | 9.09 dB/100ft |
| 750 MHz | 9.28 dB/100ft |
| 1000 MHz | 10.8 dB/100ft |
| 1500 MHz | 13.2 dB/100ft |
| 2000 MHz | 15.3 dB/100ft |
| 2250 MHz | 16.3 dB/100ft |
| 3000 MHz | 19.0 dB/100ft |
| 4500 MHz | 23.6 dB/100ft |
| 6000 MHz | 27.7 dB/100ft |
| 12000 MHz | 41.2 dB/100ft |

**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) | 3.9 Ohm/1000ft (13 Ohm/km) | 16.3 pF/ft (53.5 pF/m) | 75 Ohm | 82% |

**Voltage**

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

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

## Mechanical Characteristics

**Temperature**

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

**Bend Radius**

| Stationary Min. | Installation Min. |
|---|---|
| 1.59 in (40.4 mm) | 1.59 in (40.4 mm) |

| | |
|---|---|
| Max. Pull Tension: | 40 lbs (18 kg) |
| Bulk Cable Weight: | 17 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 2015/863/EU (RoHS 2 amendment), 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

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|---|---|
| Notes: | Print legend includes sequential footage marks. |

## History

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|---|---|
| Update and Revision: | Revision Number: 0.201 Revision Date: 05-27-2026 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | UPC |
|---|---|---|---|---|
| 4855ANH G753280 | Aqua | Reel | 100 m | 612825443452 |

| | | | | |
|---|---|---|---|---|
| 4855ANH G751000 | Aqua | Reel | 305 m | 612825443353 |
| 4855ANH G751640 | Aqua | Reel | 500 m | 612825443407 |
| 4855ANH 0103280 | Black | Reel | 100 m | 612825443490 |
| 4855ANH 0101000 | Black | Reel | 305 m | 612825443391 |
| 4855ANH 0101640 | Black | Reel | 500 m | 612825443445 |
| 4855ANH 0063280 | Blue | Reel | 100 m | 612825443476 |
| 4855ANH 0061000 | Blue | Reel | 305 m | 612825443377 |
| 4855ANH 0061640 | Blue | Reel | 500 m | 612825443421 |
| 4855ANH N3U3280 | Green | Reel | 100 m | 612825443469 |
| 4855ANH N3U1000 | Green | Reel | 305 m | 612825443360 |
| 4855ANH N3U1640 | Green | Reel | 500 m | 612825443414 |
| 4855ANH 0071000 | Purple | Reel | 305 m | 612825443384 |
| 4855ANH 0071640 | Purple | Reel | 500 m | 612825443438 |

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