

# 4855R - 4K UHD Coax for 12G-SDI, 75 Ohm, Mini RG-59, 23 AWG Solid SC, Foil + 95% TC Braid, PVC Jkt, CMR

Item: 20119430 + 20119431



## Electrical Characteristics

### RETURN LOSS

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

### 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
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### Construction Details

RG Type	Mini 59
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### CONDUCTOR

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

### INSULATION

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

### 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)

## 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	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 (41 mm)

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
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