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**Part Number: 4855R**

12 GHz Coax, 4K UHD Precision Video Cable, RG-59 Mini, 75 Ohm, 23 AWG Solid, CMR

**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), PVC jacket.

**Technical Specifications**

**Product Overview**

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

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter No
23	Solid	SPC - Silver Plated Copper	0.023 in

**Insulation**

Material	Nominal Dia
Gas-injected FHDPE - Foam High Density Polyethylene	0.102 in

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage
Tape 1		Aluminum/Polyester	Aluminum Bonded Duofoil® (Bonded to Dielectric)	100 %
Braid 2		TC - Tinned Copper		95 %

**Outer Jacket Material**

Material	Nominal Dia
PVC - Polyvinyl Chloride	0.159 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Outer C
19.7 Ohm/1000ft	3.9 Ohm/1000ft

**Capacitance**

Nom. Capacitance	Conduct
16.3 pF/ft	

**Inductance**

Nominal Indu
0.107 μH/ft

**Impedance**

Nominal Characteristic
75 Ohm

Frequency [MHz]	Minimum Return Loss [dB]
5 MHz - 1600 MHz	3 dB
1600 MHz - 4500 MHz	3 dB
4500 MHz - 12000 MHz	15 dB

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. In. Loss [dB/100ft]
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

#### Delay

Nominal Delay [ns/ft]	Nominal Velocity of Propagation [%]
1.24 ns/ft	82 %

#### Voltage

UL Voltage Rating [V RMS]
300 V RMS

Electrical Characteristics Note: Return Loss: Fixed bridge and termination

Other Electrical Characteristics: Percent test

#### Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

#### Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	17 lbs/1000ft
Max Recommended Pulling Tension:	
Min Bend Radius/Minor Axis:	1.6 in

#### Standards

NEC/(UL) Specification:	CMR
CEC/(UL) Specification:	CMG
CPR Euroclass:	Eca

RG Type:	Mini 59/U Type
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**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV)s:	
EU Directive 2003/96/EC (BFE)s:	
EU Directive 2011/65/EU (RoHS II):	
EU Directive 2012/19/EU (WEEE):	
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable)s:	

**Suitability**

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

**Flammability, LSOH, Toxicity Testing**

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Part Number**

**Variants**

Item #	Color	UPC	Length	Footnote
4855R 01010	Black	612825390572	1,000 ft	
4855R 01050	Black	612825390589	5,000 ft	
4855R 01010	Black	612825436362	10,000 ft	
4855R 00610	Blue, Light	612825393362	1,000 ft	
4855R 00610	Blue, Light	612825436218	10,000 ft	
4855R 00650	Blue, Light	612825436591	5,000 ft	
4855R N3U50	Green, Mil	612825436652	5,000 ft	
4855R N3U10000	Green, Mil	612825436447	10,000 ft	
4855R N3U1000	Green, Mil	612825393355	1,000 ft	
4855R 00310	Orange	612825393249	1,000 ft	
4855R 00350	Orange	612825436560	5,000 ft	
4855R 00310	Orange	612825436195	10,000 ft	
4855R 00710	Purple	612825393263	1,000 ft	
4855R 00210	Red	612825393232	1,000 ft	
4855R 00250	Red	612825436522	5,000 ft	
4855R 00210	Red	612825436164	10,000 ft	
4855R 00750	Violet	612825436607	5,000 ft	
4855R 00710	Violet	612825436225	10,000 ft	
4855R 00950	White	612825436645	5,000 ft	
4855R 00910	White	612825436461	10,000 ft	
4855R 00410	Yellow	612825393256	1,000 ft	
4855R 00410	Yellow	612825436201	10,000 ft	
4855R 00450	Yellow	612825436584	5,000 ft	

Footnote: C - CRATE REEL PUT-UP.  
Footnote: Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

**Product Notes**



Notes: Print legend includes sequential footage marks.

History

Update and Revision: Revision Number: 0.205 Revision Date: 08-22-2019

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