



Part Number: 4855P

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

Product Description

12 GHz, 4K UHD Precision Video Coax, 75 Ohm Mini RG-59 Type 23 AWG solid silver plated copper conductor, foam FEP core, Duofoil® bonded to core+95% tinned copper braid, CMP, Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	SMPTE 2082-1 12 Gb/s UHD TV, SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080P
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	SPCCS - Silver Plated Copper Covered Steel	0.023 in	1

Conductor Size:	23 AWG
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Insulation

Material	Nominal Diameter
Gas-injected FEP - Foam Fluorinated Ethylene Propylene	0.102 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Bonded Duofoil® (Bonded to Dielectric)	100.0 %
Braid	2	TC - Tinned Copper		95.0 %

Outer Jacket Material

Material	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	0.159 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Outer Conductor DCR
20.1 Ohm/1000ft	3.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.6 pF/ft

Inductance

Nominal Inductance
0.3 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 MHz - 1600 MHz	23 dB

1600 MHz - 4500 MHz	21 dB
4500 MHz - 12000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.39 dB/100ft
3.58 MHz	0.78 dB/100ft
5 MHz	0.91 dB/100ft
6 MHz	1.00 dB/100ft
7 MHz	1.07 dB/100ft
10 MHz	1.26 dB/100ft
12 MHz	1.37 dB/100ft
25 MHz	1.91 dB/100ft
55 MHz	2.72 dB/100ft
67.5 MHz	2.99 dB/100ft
71.5 MHz	3.06 dB/100ft
88.5 MHz	3.38 dB/100ft
100 MHz	3.58 dB/100ft
135 MHz	4.13 dB/100ft
143 MHz	4.25 dB/100ft
180 MHz	4.75 dB/100ft
270 MHz	5.86 dB/100ft
360 MHz	6.85 dB/100ft
540 MHz	8.58 dB/100ft
720 MHz	10.11 dB/100ft
750 MHz	10.34 dB/100ft
1000 MHz	12.17 dB/100ft
1500 MHz	15.25 dB/100ft
2000 MHz	17.94 dB/100ft
2250 MHz	19.17 dB/100ft
3000 MHz	22.65 dB/100ft
4500 MHz	28.71 dB/100ft
6000 MHz	33.96 dB/100ft
12000 MHz	50.95 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.27 ns/ft	80.0 %

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	18 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius/Minor Axis:	1.5 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
RG Type:	Mini 59/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2018-03-26
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Sunlight Resistance:	No

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	4855R
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Variants

Item #	Color
4855P 0101000	Black
4855P 0061000	Blue
4855P 0051000	Green
4855P 0031000	Orange
4855P 0021000	Red
4855P 0071000	Violet

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