



Product: [4855P](#)

12 GHz Coax, 4K UHD Precision Video Coax, Mini RG-59, 75 Ohm, 23 AWG Solid SC, 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 UHDTV, SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080P
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Construction Details

RG Type:	Mini 59
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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
FEP - Fluorinated Ethylene Propylene (Foam)	0.102 in (2.59 mm)	White

Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond®	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)
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Electrical Characteristics

Return Loss (RL)

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	0.91 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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
23.7 Ohm/1000ft	3.5 Ohm/1000ft (11 Ohm/km)	16.6 pF/ft (54.5 pF/m)	75 Ohm	80%

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1.5 in (38 mm)	1.5 in (38 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	20 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	4855R

History

Update and Revision:	Revision Number: 0.264 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
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4855P 0101000	Black	Reel	1,000 ft	612825419785
4855P 0061000	Blue	Reel	1,000 ft	612825419761
4855P 0051000	Green	Reel	1,000 ft	612825419754
4855P 0031000	Orange	Reel	1,000 ft	612825419747
4855P 0021000	Red	Reel	1,000 ft	612825419730
4855P 0071000	Violet	Reel	1,000 ft	612825419778

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