



**Product:** [4855PX](#)

12 GHz Coax, 4K UHD Precision Video Coax, Mini RG-59, 75 Ohm, 23 AWG Solid SC, PVDF Jacket, I/O 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, Indoor/Outdoor CMP, PVDF Jacket

### Technical Specifications

#### 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, OSP
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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
PVDF - Polyvinylidene Fluoride	0.162 in (4.11 mm)

Overall Cable Diameter (Nominal):	0.162 in (4.11 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 (77.8 Ohm/km)	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

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
125°C	-20°C To +125°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 (30 kg/km)

### Standards and Compliance

Environmental Suitability:	Indoor/OutdoorPlenum, Indoor, Outdoor, Sunlight Resistance, Aerial - When supported by messenger wire
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)

### History

Update and Revision:	Revision Number: 0.15 Revision Date: 04-29-2024
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