



**Product:** [1855P](#)

75 Ohm SDI Coax, Mini RG-59, 23 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMP

## Product Description

75 Ohm SDI Coax, Mini RG-59, 23 AWG Solid Bare Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMP

## Technical Specifications

### Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, 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	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	0.102 in (2.59 mm)

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	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 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

#### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.38 dB/100ft
3.58 MHz	0.76 dB/100ft
10 MHz	1.3 dB/100ft
71.5 MHz	3.1 dB/100ft
135 MHz	4.1 dB/100ft
270 MHz	5.8 dB/100ft
360 MHz	6.9 dB/100ft

540 MHz	8.7 dB/100ft
720 MHz	10.3 dB/100ft
750 MHz	10.5 dB/100ft
1000 MHz	12.4 dB/100ft
1500 MHz	15.7 dB/100ft
2250 MHz	19.9 dB/100ft
3000 MHz	23.8 dB/100ft
4500 MHz	30.3 dB/100ft
6000 MHz	36.4 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
20.1 Ohm/1000ft (65.9 Ohm/km)	3.7 Ohm/1000ft (12 Ohm/km)	16.6 pF/ft (54.5 pF/m)	75 Ohm	80%

#### Voltage

UL Voltage Rating
300 V (CMP)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	0°C to +75°C

#### Bend Radius

Installation Min.
4 in

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	21 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	1855A

## History

Update and Revision:	Revision Number: 0.361 Revision Date: 12-15-2021
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#### Variants

Item #	Color	Putup Type	Length	UPC
1855P 0101000	Black	Reel	1,000 ft	612825124771
1855P 0061000	Blue, Light	Reel	1,000 ft	612825124740
1855P 0011000	Brown	Reel	1,000 ft	612825124702
1855P 0081000	Gray	Reel	1,000 ft	612825124764
1855P N3U1000	Green, Mil	Reel	1,000 ft	612825124696
1855P 8771000	Natural	Reel	1,000 ft	612825124788
1855P 0031000	Orange	Reel	1,000 ft	612825124726
1855P 0021000	Red	Reel	1,000 ft	612825124719
1855P 0071000	Violet	Reel	1,000 ft	612825124757
1855P 0041000	Yellow	Reel	1,000 ft	612825124733

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