



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

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

### Product Description

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

### 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	Color Code
PE - Polyethylene (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)	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	0.39 dB/100ft
3.58 MHz	0.78 dB/100ft
5 MHz	0.92 dB/100ft
6 MHz	1.00 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
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	9.15 dB/100ft
750 MHz	9.31 dB/100ft
1000 MHz	10.89 dB/100ft
1500 MHz	13.38 dB/100ft
2000 MHz	15.64 dB/100ft
2250 MHz	16.68 dB/100ft
3000 MHz	19.65 dB/100ft
4500 MHz	24.35 dB/100ft
6000 MHz	28.97 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	3.7 Ohm/1000ft (12 Ohm/km)	16.3 pF/ft (53.5 pF/m)	75 Ohm	82%

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C	-30°C to +75°C

#### Bend Radius

Installation Min.
1.6 in (41 mm)

Max. Pull Tension:	33 lbs (15 kg)
Bulk Cable Weight:	17 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor - Black only, UV Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMG
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1855P

## History

Update and Revision:	Revision Number: 0.471 Revision Date: 04-24-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1855A 010500	Black	Reel	500 ft	612825356950	
1855A 0101000	Black	Reel	1,000 ft	612825358503	C

1855A 010N1000	Black	Reel w/Small Barrel	1,000 ft		
1855A 010Z1000	Black	ReelTuff Box	1,000 ft	612825434993	
1855A 0105000	Black	Reel	5,000 ft	612825436126	
1855A 0061000	Blue, Light	Reel	1,000 ft	612825358459	C
1855A 006N1000	Blue, Light	Reel w/Small Barrel	1,000 ft		
1855A 006Z1000	Blue, Light	ReelTuff Box	1,000 ft	612825434955	
1855A 0065000	Blue, Light	Reel	5,000 ft	612825436072	
1855A 0011000	Brown	Reel	1,000 ft	612825356851	C
1855A 001N1000	Brown	Reel w/Small Barrel	1,000 ft		
1855A 0015000	Brown	Reel	5,000 ft	612825436027	
1855A 0081000	Gray	Reel	1,000 ft	612825358510	C
1855A 008N1000	Gray	Reel w/Small Barrel	1,000 ft		
1855A 0085000	Gray	Reel	5,000 ft	612825436096	
1855A N3U1000	Green, Mil	Reel	1,000 ft	612825358480	C
1855A N3UN1000	Green, Mil	Reel w/Small Barrel	1,000 ft		
1855A N3UZ1000	Green, Mil	ReelTuff Box	1,000 ft	612825435006	
1855A N3U5000	Green, Mil	Reel	5,000 ft	612825436133	
1855A 0031000	Orange	Reel	1,000 ft	612825356844	C
1855A 003N1000	Orange	Reel w/Small Barrel	1,000 ft		
1855A 003Z1000	Orange	ReelTuff Box	1,000 ft	612825434931	
1855A 0035000	Orange	Reel	5,000 ft	612825436041	
1855A 0021000	Red	Reel	1,000 ft	612825358473	C
1855A 002N1000	Red	Reel w/Small Barrel	1,000 ft		
1855A 002Z1000	Red	ReelTuff Box	1,000 ft	612825434917	
1855A 0025000	Red	Reel	5,000 ft	612825436034	
1855A 0071000	Violet	Reel	1,000 ft	612825356837	C
1855A 007N1000	Violet	Reel w/Small Barrel	1,000 ft		
1855A 007Z1000	Violet	ReelTuff Box	1,000 ft	612825434962	
1855A 0075000	Violet	Reel	5,000 ft	612825436089	
1855A 0091000	White	Reel	1,000 ft	612825358497	C
1855A 009N1000	White	Reel w/Small Barrel	1,000 ft		
1855A 009Z1000	White	ReelTuff Box	1,000 ft	612825434986	
1855A 0095000	White	Reel	5,000 ft	612825436102	
1855A 0041000	Yellow	Reel	1,000 ft	612825358466	C
1855A 004N1000	Yellow	Reel w/Small Barrel	1,000 ft		
1855A 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825434948	
1855A 0045000	Yellow	Reel	5,000 ft	612825436065	

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