



**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
PE - Polyethylene (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	0.39 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 (65.9 Ohm/km)	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

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

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, UV Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1666 Vertical Shaft, FT4
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1855P

## History

Update and Revision:	Revision Number: 0.364 Revision Date: 04-08-2022
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## Part Numbers

#### Variants

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