



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
------------------------	---

Construction Details

RG Type:	Mini 59
----------	---------

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)
-----------------------------------	--------------------

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, 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
----------------------	--

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	

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.