



Product: [7731A](#)

75 Ohm SDI Coax, RG-11, 14 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMR

Product Description

75 Ohm SDI Coax, RG-11, 14 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:	11
----------	----

Conductor

Size	Stranding	Nom. Diameter	Material
14 AWG	Solid	0.064 in	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.280 in (7.11 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	0.400 in (10.2 mm)

Overall Cable Diameter (Nominal):	0.400 in (10.2 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	0.16 dB/100ft
3.58 MHz	0.29 dB/100ft
5 MHz	0.34 dB/100ft
7 MHz	0.39 dB/100ft
10 MHz	0.46 dB/100ft
67.5 MHz	1.05 dB/100ft
71.5 MHz	1.09 dB/100ft

88.5 MHz	1.21 dB/100ft
100 MHz	1.28 dB/100ft
135 MHz	1.47 dB/100ft
143 MHz	1.51 dB/100ft
180 MHz	1.69 dB/100ft
270 MHz	1.97 dB/100ft
360 MHz	2.31 dB/100ft
540 MHz	2.87 dB/100ft
720 MHz	3.40 dB/100ft
750 MHz	3.45 dB/100ft
1000 MHz	4.3 dB/100ft
1500 MHz	5.5 dB/100ft
2000 MHz	6.4 dB/100ft
2250 MHz	6.9 dB/100ft
3000 MHz	8.2 dB/100ft
[delete]	[delete]
4500 MHz	9.56 dB/100ft
6000 MHz	11.53 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
2.5 Ohm/1000ft	1.5 Ohm/1000ft (4.9 Ohm/km)	16.1 pF/ft (52.8 pF/m)	75 Ohm	84%

Voltage

UL Voltage Rating
300 V (CMR, CMG)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-40°C to +75°C

Bend Radius

Installation Min.
4 in (100 mm)

Max. Pull Tension:	145 lbs (65.8 kg)
Bulk Cable Weight:	100 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:	7732A

History

Update and Revision:	Revision Number: 0.505 Revision Date: 02-03-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
7731A.00152	Black	Reel	152 m	8719605013545	
7731A.00305	Black	Reel	305 m	8719605013569	
7731A 010500	Black	Reel	500 ft	612825436058	C
7731A 0101000	Black	Reel	1,000 ft	612825357438	C

7731A.001220	Black	Reel	1,220 m	8719605013538	
7731A.002000	Black	Reel	2,000 m	8719605013552	
7731A 0104000	Black	Reel	4,000 ft	612825357339	C
7731A 0105000	Black	Reel	5,000 ft	612825357247	
7731A.03152	Blue	Reel	152 m	8719605013637	
7731A.03305	Blue	Reel	305 m	8719605013644	
7731A.031220	Blue	Reel	1,220 m	8719605013620	
7731A 0061000	Blue, Light	Reel	1,000 ft	612825357391	
7731A 0064000	Blue, Light	Reel	4,000 ft	612825436119	C
7731A 0065000	Blue, Light	Reel	5,000 ft	612825358589	
7731A 0011000	Brown	Reel	1,000 ft	612825357216	
7731A 0014000	Brown	Reel	4,000 ft	612825357209	C
7731A 0081000	Gray	Reel	1,000 ft	612825357360	
7731A 0084000	Gray	Reel	4,000 ft	612825358572	C
7731A.08305	Gray, Slate	Reel	305 m	8719605013743	
7731A.081220	Gray, Slate	Reel	1,220 m	8719605013736	
7731A.02305	Green	Reel	305 m	8719605013613	
7731A.021220	Green	Reel	1,220 m	8719605013606	
7731A N3U1000	Green, Mil	Reel	1,000 ft	612825357230	C
7731A N3U4000	Green, Mil	Reel	4,000 ft	612825408703	C
7731A.06305	Orange	Reel	305 m	8719605013705	
7731A 0031000	Orange	Reel	1,000 ft	612825357308	
7731A.061220	Orange	Reel	1,220 m	8719605013699	
7731A 0034000	Orange	Reel	4,000 ft	612825357421	C
7731A.05305	Purple	Reel	305 m	8719605013682	
7731A.051220	Purple	Reel	1,220 m	8719605013675	
7731A.01152	Red	Reel	152 m	8719605013583	
7731A.01305	Red	Reel	305 m	8719605013590	
7731A 0021000	Red	Reel	1,000 ft	612825357346	C
7731A.011220	Red	Reel	1,220 m	8719605013576	
7731A 0024000	Red	Reel	4,000 ft	612825357353	C
7731A 0071000	Violet	Reel	1,000 ft	612825357384	C
7731A 0074000	Violet	Reel	4,000 ft	612825357377	C
7731A.07305	White	Reel	305 m	8719605013729	
7731A 0091000	White	Reel	1,000 ft	612825357322	
7731A.071220	White	Reel	1,220 m	8719605013712	
7731A 0094000	White	Reel	4,000 ft	612825358565	C
7731A.04305	Yellow	Reel	305 m	8719605013668	
7731A 0041000	Yellow	Reel	1,000 ft	612825357414	
7731A.041220	Yellow	Reel	1,220 m	8719605013651	
7731A 0044000	Yellow	Reel	4,000 ft	612825357407	C

© 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.