Belden



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

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
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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, 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: 0.508 Revision Date: 05-27-2026

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 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.03152	Blue	Reel	152 m	8719605013637	
7731A.03305	Blue	Reel	305 m	8719605013644	
7731A.031220	Blue	Reel	1,220 m	8719605013620	
7731A 0011000	Brown	Reel	1,000 ft	612825357216	
7731A 0081000	Gray	Reel	1,000 ft	612825357360	
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.06305	Orange	Reel	305 m	8719605013705	
7731A.061220	Orange	Reel	1,220 m	8719605013699	
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.011220	Red	Reel	1,220 m	8719605013576	
7731A.07305	White	Reel	305 m	8719605013729	
7731A.071220	White	Reel	1,220 m	8719605013712	
7731A.04305	Yellow	Reel	305 m	8719605013668	
7731A.041220	Yellow	Reel	1,220 m	8719605013651	

Footnote:	C - CRATE REEL PUT-UP.

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