



**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
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#### Construction Details

RG Type:	11
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#### Conductor

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

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene (Foam)	0.280 in (7.11 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	0.400 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	3.60 dB/100ft
1000 MHz	4.12 dB/100ft
1500 MHz	5.10 dB/100ft
2000 MHz	6.04 dB/100ft
2250 MHz	6.43 dB/100ft
3000 MHz	7.63 dB/100ft
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 (8.2 Ohm/km)	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
60°C	-20°C to +75°C

#### Bend Radius

Installation Min.
4 in

Max. Pull Tension:	145 lbs (65.8 kg)
Bulk Cable Weight:	87 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, 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:	7732A

## History

Update and Revision:	Revision Number: 0.350 Revision Date: 04-08-2022
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC/EAN
7731A.00152	Black	Reel	152 m	8719605013545
7731A.00305	Black	Reel	305 m	8719605013569
7731A 010500	Black	Reel	500 ft	612825436058
7731A 0101000	Black	Reel	1,000 ft	612825357438
7731A.001220	Black	Reel	1,220 m	8719605013538
7731A.002000	Black	Reel	2,000 m	8719605013552

7731A 0104000	Black	Reel	4,000 ft	612825357339
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
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
7731A 0081000	Gray	Reel	1,000 ft	612825357360
7731A 0084000	Gray	Reel	4,000 ft	612825358572
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
7731A N3U4000	Green, Mil	Reel	4,000 ft	612825408703
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
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
7731A.011220	Red	Reel	1,220 m	8719605013576
7731A 0024000	Red	Reel	4,000 ft	612825357353
7731A 0071000	Violet	Reel	1,000 ft	612825357384
7731A 0074000	Violet	Reel	4,000 ft	612825357377
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
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

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