

Part Number: 7732A

Serial Digital Coax, RG11, #14 Solid BC, Foil + 95% TC braid, CMP

Product Description

Low Loss Serial Digital Coax, Plenum-CMP, RG11 14 AWG solid bare copper conductor, foam FEP core, Duofoil®, +95% tinned copper braid, fluorocopolymer jacket

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	BC - Bare Copper	0.064 in	1

Conductor Count:	1

Insulation

Material	Material Trade Name	Nominal Diameter
FFEP - Foam Fluorinated Ethylene Propylene	Teflon®	0.274 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		95 %

Outer Jacket Material

Material	Nominal Diameter
PVDF - Fluorocopolymer	0.348 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
2.5 Ohm/1000ft	1.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

Inductance

Nominal Inductance
0.091 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.15 dB/100ft
3.58 MHz	0.26 dB/100ft
5 MHz	0.3 dB/100ft
7 MHz	0.34 dB/100ft
10 MHz	0.4 dB/100ft
67.5 MHz	1.2 dB/100ft
71.5 MHz	1.24 dB/100ft
88.5 MHz	1.4 dB/100ft
100 MHz	1.5 dB/100ft
135 MHz	1.55 dB/100ft
143 MHz	1.65 dB/100ft
180 MHz	1.83 dB/100ft
270 MHz	2.31 dB/100ft
360 MHz	2.76 dB/100ft
540 MHz	3.57 dB/100ft
720 MHz	4.32 dB/100ft
750 MHz	4.44 dB/100ft
1000 MHz	5.42 dB/100ft
1500 MHz	7.06 dB/100ft
2000 MHz	8.57 dB/100ft
2500 MHz	9.93 dB/100ft
3000 MHz	11.27 dB/100ft
4500 MHz	14.67 dB/100ft
6000 MHz	17.86 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83 %

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination

Temperature Range

Operating Temp Range:	-20°C To +125°C

Mechanical Characteristics

UV Resistance:	No
Bulk Cable Weight:	83 lbs/1000ft
Max Recommended Pulling Tension:	145 lbs
Min Bend Radius/Minor Axis:	3.5 in

Standards

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
RG Type:	11/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	No

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Part Number

Non-Plenum Number:	7731A

Variants

Item #	Color	UPC	Length	Footnote
7732A 0101200	Black	612825438250	1,200 ft	
7732A 010500	Black	612825188872	500 ft	C
7732A 0101000	Black	612825188858	1,000 ft	C
7732A 0103000	Black	612825188865	3,000 ft	
7732A 0061000	Blue, Light	612825188841	1,000 ft	C
7732A 8771000	Natural	612825188889	1,000 ft	C
7732A 877500	Natural	612825188896	500 ft	C
7732A 0041000	Yellow	612825188834	1,000 ft	C

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

Notes:	Print legend includes sequential footage marks.

History

Update and Revision:	Revision Number: 0.300 Revision Date: 08-22-2019

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