




Product: [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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
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Insulation

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	Teflon®	0.274 in

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter
PVDF - Polyvinylidene Fluoride	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
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Temperature Range

Operating Temp Range:	-20°C To +125°C
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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

Environmental Space:	Indoor/Outdoor
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
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
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Part Number

Non-Plenum Number:	7731A
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Variants

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

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.307 Revision Date: 04-28-2020
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