

Product: [7803A](#) 

Video Triax, RG11, #14 Solid, PE Jacket, Waterblocked



Product Description

14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, bare copper double shields (95% and 80% coverage), polyethylene 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

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.285 in
Table Notes:	Gas Injected

Inner Shield		
Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

Inner Jacket	
Material	Nominal Diameter
PE - Polyethylene	0.365 in

Outer Shield		
Type	Material	Coverage [%]
Braid	Bare Copper (BC)	80%
Table Notes:	Polyethylene	

Outer Jacket	
Material	Nominal Diameter
PE - Polyethylene	0.475 in

Electrical Characteristics

Conductor DCR			
Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
2.5 Ohm/1000ft	2.5 Ohm/1000ft	1.6 Ohm/1000ft	1.4 Ohm/1000ft

Capacitance
Nom. Capacitance Conductor to Shield
16.1 pF/ft

Inductance
Nominal Inductance

0.097 μH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-850 MHz	21 dB
850-3000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.14 dB/100ft
3.6 MHz	0.3 dB/100ft
10 MHz	0.4 dB/100ft
71.5 MHz	1.1 dB/100ft
135 MHz	1.6 dB/100ft
270 MHz	2.3 dB/100ft
360 MHz	2.6 dB/100ft
540 MHz	3.3 dB/100ft
720 MHz	3.8 dB/100ft
750 MHz	4 dB/100ft
1000 MHz	4.6 dB/100ft
1500 MHz	5.9 dB/100ft
2250 MHz	7.4 dB/100ft
3000 MHz	12.5 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	84%

Voltage

Non-UL Voltage Rating
300 V RMS

Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-55°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	113 lbs/1000ft
Max. Pull Tension:	170 lbs
Min. Bend Radius/Minor Axis:	10 in

Standards

RG Type:	11
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Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Water Exposure
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	Yes

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
7803A 0101000	Black	Reel	1,000 ft	612825436010
7803A 0105000	Black	Reel	5,000 ft	612825440499
7803A 1VH5000	Brown	Reel	5,000 ft	612825440482
7803A U7Y5000	White	Reel	5,000 ft	612825189374

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.324 Revision Date: 09-10-2021
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