


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
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0.097  $\mu$ H/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

#### 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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### Related Part Numbers

#### 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: 0.325 Revision Date: 12-15-2021
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