



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  $\mu$ 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 Temperature 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
---------------	----

### 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.
-----------	------------------------

### History

Update and Revision:	Revision Number: 0.331 Revision Date: 04-29-2024
----------------------	--

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.