

**Product:** [7801A](#) 



Metric Video Triax, #19 Solid SPC, SPC Braid, PVC Jacket, BC Braid, Belflex Jacket

## Product Description

19 AWG solid .039" silver-plated copper conductor, gas-injected foam PE insulation, two braids: one silver-plated copper (90%) and one bare copper (80%), PVC inner jacket between braids, Belflex jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SCCS - Silvered Copper Covered Steel	0.039 in	1

Conductor Count:	1
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#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.178 in

#### Inner Shield Material

Type	Material	Coverage [%]	Drainwire Diameter
Braid	Silvered Copper (SC)	90%	0.2 mm

#### Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.26 in

#### Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter
Braid	Bare Copper (BC)	80%	0.282 in

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.331 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
9.33 Ohm/1000ft	9.33 Ohm/1000ft		3.28 Ohm/1000ft	2.76 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
16.7 pF/ft

#### Inductance

Nominal Inductance
0.095 µH/ft

#### Impedance

**Nominal Characteristic Impedance**

75 Ohm

**Return Loss (RL)**

Frequency [MHz]	Min. Structural Return Loss (SRL)
1-100 MHz	26 dB
101-300 MHz	23 dB

**High Frequency (Nominal/Typical)**

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.19 dB/100ft
3.58 MHz	0.36 dB/100ft
5 MHz	0.43 dB/100ft
7 MHz	0.51 dB/100ft
10 MHz	0.61 dB/100ft
67.5 MHz	1.76 dB/100ft
71.5 MHz	1.8 dB/100ft
88.5 MHz	2.1 dB/100ft
100 MHz	2.2 dB/100ft
135 MHz	2.6 dB/100ft
143 MHz	2.7 dB/100ft
180 MHz	3 dB/100ft
270 MHz	3.8 dB/100ft
360 MHz	4.5 dB/100ft
540 MHz	5.6 dB/100ft
720 MHz	6.6 dB/100ft
750 MHz	6.7 dB/100ft
1000 MHz	7.9 dB/100ft
1500 MHz	9.9 dB/100ft
2000 MHz	11.6 dB/100ft
2250 MHz	12.4 dB/100ft
3000 MHz	14.5 dB/100ft

**Delay**

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.52 ns/ft	81%

**Voltage****Non-UL Voltage Rating**

600 V RMS

**Temperature Range**

Non-UL Temp Rating:	80°C
Operating Temp Range:	-50°C To +80°C

**Mechanical Characteristics**

Bulk Cable Weight:	60 lbs/1000ft
Max. Pull Tension:	112 lbs
Min Bend Radius/Minor Axis:	3.5 in

**Standards**

RG Type:	N/A
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**Applicable Environmental and Other Programs**

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black for permanent outdoor installations; all colors suitable for outdoor field deployable use

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
7801A X71328	Red X71	Reel	328 ft	612825355458

Footnote:	C - CRATE REEL PUT-UP.
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### History

Update and Revision:	Revision Number: 0.268 Revision Date: 09-30-2020
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