



**Product:** [7504A](#)

MachFlex™, Vision Coax 75Ω, #16 Str BC, PO Ins, OA TC Brd, PVC Jkt, AWM 1354

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## Product Description

MachFlex™ for High Flex, 1 Conductor 16AWG (259(7x37)x40) Bare Copper, PO Insulation, Overall Tinned Copper Braid(95%) Shield, PVC Outer Jacket, AWM 1354

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
16	7x37x40	BC - Bare Copper	0.065 in	1

Conductor Count: 1

#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.285 in

#### Outer Shield Material

Type	Material	Coverage [%]
French Braid	Tinned Copper (TC)	95%

#### Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.405 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
3.5 Ohm/1000ft	3.6 Ohm/1000ft	3.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
17.3 pF/ft

#### Inductance

Nominal Inductance
0.097 μH/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
2.2 MHz	0.2 dB/100ft
5 MHz	0.3 dB/100ft

10 MHz	0.4 dB/100ft
30 MHz	0.8 dB/100ft
50 MHz	1 dB/100ft
100 MHz	1.5 dB/100ft

#### Delay

<b>Nominal Delay</b>
1.3 ns/ft

#### High Freq

<b>Frequency [MHz]</b>
2.2 MHz
5 MHz
10 MHz
30 MHz
50 MHz
100 MHz

#### Voltage

<b>UL Voltage Rating</b>
30 V RMS

#### Temperature Range

Non-UL Temp Rating:	80°C
Operating Temp Range:	-40°C To +80°C

#### Mechanical Characteristics

Bulk Cable Weight:	68 lbs/1000ft
Max. Pull Tension:	76 lbs
Min Bend Radius (Continuous Flexing):	8.1 in
Min Bend Radius/Minor Axis:	4 in

#### Standards

UL AWM Style Compliance:	1354
CSA AWM Compliance:	AWM I/II A/B

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT1
UL voltage rating:	30 V RMS

#### Plenum/Non-Plenum

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

##### Variants

Item #	Color	Putup Type	Length	UPC
7504A G7X1000	Blue, Matte	Reel	1,000 ft	612825187332

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

Update and Revision:	Revision Number: 0.299 Revision Date: 08-25-2020
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