



Product: [7500A](#) 

MachFlex™, Vision Coax 75Ω, #30 Str Tinned Alloy, PO Ins, OA TC Brd, PVC Jkt, AWM 1354

 [Request Sample](#)

Product Description

MachFlex™ for High Flex, 1 Conductor 30AWG (7x38) Tinned Alloy, 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
30	7x38	TCA - Tinned Copper Alloy	0.012 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.056 in

Outer Shield Material

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

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.11 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
108 Ohm/1000ft	13.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.7 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	0.9 dB/100ft
5 MHz	1.4 dB/100ft
10 MHz	2 dB/100ft

30 MHz	3.4 dB/100ft
50 MHz	4.4 dB/100ft
100 MHz	6.4 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78 %

High Freq

Frequency [MHz]
2.2 MHz
5 MHz
10 MHz
30 MHz
50 MHz
100 MHz

Voltage

UL Voltage Rating
30 V RMS

Temperature Range

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

Mechanical Characteristics

Flex Cycle Rating:	1 Million
Bulk Cable Weight:	7 lbs/1000ft
Max Recommended Pulling Tension:	14 lbs
Min Bend Radius (Continuous Flexing):	2.2 in
Min Bend Radius/Minor Axis:	1.1 in

Standards

UL AWM Style:	1354
CSA AWM Specification:	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):	2005-10-01
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
7500A G7X1000	Blue, Matte	Reel	1,000 ft	612825187202

Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
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History

Update and Revision:	Revision Number: 0.297 Revision Date: 04-28-2020
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