Product: 7502A

MachFlex™, Vision Coax 75Ω, #22 Str BC, PO Ins, OA TC Brd, PVC Jkt, AWM 1354

Request Sample

Product Description

MachFlex™ for High Flex, 1 Conductor 22AWG (19x34) 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
22	19x34	BC - Bare Copper	0.031 in	1

Conductor Count:	1

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in

Outer Shield

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

Outer Jacket

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Belflex®	0.242 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
13.4 Ohm/1000ft	6.4 Ohm/1000ft	6.4 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
18 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	0.4 dB/100ft
5 MHz	0.5 dB/100ft
10 MHz	0.8 dB/100ft

30 MHz	1.4 dB/100ft
50 MHz	1.8 dB/100ft
100 MHz	2.7 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	79%

High Frequency

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 Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max. Pull Tension:	38 lbs
Min. Bend Radius (Continuous Flexing):	5 in
Min. Bend Radius/Minor Axis:	2.5 in

Standards

UL AWM Style Compliance:	AWM 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 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:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL voltage rating:	30 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
7502A G7X250	Blue, Matte	Reel	250 ft	612825187240
7502A G7X500	Blue, Matte	Reel	500 ft	612825187257
7502A G7X1000	Blue, Matte	Reel	1,000 ft	612825187233

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

History

Update and Revision:	Revision Number: 0.390 Revision Date: 05-05-2023

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