Product: 7500A ⧉

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

❖ Request Sample

Product Description

30AWG (7x38) Tinned Alloy, Foam PE Insulation, Overall Tinned Copper Braid(95%) Shield, PVC Outer Jacket, High Flex, AWM 1354

Technical Specifications

Product Overview

Suitable Applications:	Automation, Robotics, Vision Control

Construction Details

Conductor

Size	Stranding	Nom. Diameter	Material
30 AWG	7x38	0.012 in	TCA - Tinned Copper Alloy

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	0.056 in (1.4 mm)	White

Outer Shield

Outer Shield Type	Material	Coverage
French Braid	Tinned Copper (TC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.110 in (2.79 mm)

Overall Cable Diameter (Nominal):	0.110 in (2.79 mm)

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation
2.2 MHz	0.9 dB/100ft
5 MHz	1.4 dB/100ft
10 MHz	2.0 dB/100ft
30 MHz	3.4 dB/100ft
50 MHz	4.4 dB/100ft
100 MHz	6.4 dB/100ft

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
108 Ohm/1000ft	13.3 Ohm/1000ft (43.6 Ohm/km)	17.3 pF/ft (56.8 pF/m)	75 Ohm	78%

Voltage

UL Voltage Rating
30 V (UL AWM 1354)

Mechanical Characteristics

Temperature

UL Temperature	Operating
80°C	-35°C to +80°C

Bend Radius

Installation Min.	Flexing Min.
1.1 in (28 mm)	2.2 in (56 mm)

Max. Pull Tension:	14 lbs (6.4 kg)
Bulk Cable Weight:	8 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1581 Horizontal Wire, FT1
AWM Compliance:	AWM 1354, AWM I/II A/B
CEC / C(UL) Compliance:	LL7874
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.539 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7500A G7X1000	Blue, Matte	Reel	1,000 ft	612825187202	Z

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable]():

[7500A G7X250]() [7500A G7X1000]()