



Product: [7500A](#)

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

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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 |
|--------------------------|--------------------------|
| PE - Polyethylene (Foam) | 0.056 in (1.4 mm)        |

Outer Shield

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

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

Electricals

| Nom. Conductor DCR          | Nom. Outer Shield DCR         | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|-----------------------------|-------------------------------|---------------------------------|-------------------------------|------------------------|
| 108 Ohm/1000ft (354 Ohm/km) | 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      |
|----------------|----------------|
| 60°C           | -35°C to +80°C |

Bend Radius

| Installation Min. | Flexing Min.   |
|-------------------|----------------|
| 1.1 in            | 2.2 in (56 mm) |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 11 lbs (5.0 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: 0.365 Revision Date: 05-05-2023 |
|----------------------|--|

Part Numbers

Variants

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

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