



**Product:** [77812WS](#)

MachFlex™, 12+G C #18 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587

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## Product Description

MachFlex™ for High Flex, 12+G Conductor 18AWG (105(7x15)x38) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
18	105x38	BC - Bare Copper	11
18		BC - Bare Copper	1

Conductor Count:	12
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#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.096 in	0.022 in
PVC - Polyvinyl Chloride		

#### Color Chart

Color
Red and Numbered

#### Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.480 in	0.030 in

#### Outer Shield Material

Type	Material	Coverage [%]
Braid	Tinned Copper (TC)	85%

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.634 in	0.060 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.4 Ohm/1000ft	1.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor
45 pF/ft

#### Inductance

Nominal Inductance
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.19 µH/ft

## Voltage

### UL Voltage Rating

600 V

## Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-40°C To 90°C (Static), -5°C To 90°C (Flexing)

## Mechanical Characteristics

Oil Resistance:	Yes
Flex Cycle Rating:	14 Million Cycles
Bulk Cable Weight:	497 lbs/1000ft
Max. Pull Tension:	174 lbs
Min Bend Radius (Continuous Flexing):	5.1 in
Min Bend Radius/Minor Axis:	5.1 in

## Standards

UL AWM Style Compliance:	AWM 2587, AWM 10012
CSA AWM Compliance:	AWM I/II A/B
Other Compliance:	VDE 0472, Section 803 Oil Test

## 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

## Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT1
UL voltage rating:	600 V RMS

## Part Number

### Variants

Item #	Color	Putup Type	UPC
77812WS 010100	Black	Reel	612825412434

## History

Update and Revision:	Revision Number: 0.59 Revision Date: 08-25-2020
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