



**Part Number: 77805W**

MachFlex™ Continuous 600V Control, (5) 18 AWG (105x38) BC, PVC/PVC, AWM, CE

[Request Sample](#)

## Product Description

Four 18 AWG stranded (105x38) bare copper conductors plus ground wire, lubricated PVC insulation, oil-resistant PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor	18	105x38	BC - Bare Copper	4
Ground	18	105x30	BC - Bare Copper	1

Conductor Count:	5
Total Number of Pairs:	N/A
Conductor Size:	18 AWG

#### Insulation

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

#### Color Chart

Color
Red and Numbered

#### Outer Shield Material

Type	Material
Unshielded	Unshielded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.355 in	0.035 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
6.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	
31 pF/ft	
Shielding:	Unshielded

#### Inductance

Nominal Inductance
.19 µH/ft

#### Voltage

UL Voltage Rating
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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:	200 lbs/1000ft
Max Recommended Pulling Tension:	66 lbs
Min Bend Radius (Continuous Flexing):	2.8 in
Min Bend Radius/Minor Axis:	2.8 in

## Standards

UL AWM Style:	AWM 2587, AWM 10012
CSA AWM Specification:	AWM I/II A/B
Other Specification:	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
CA Prop 65 (CJ for Wire & Cable):	Yes

## Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT1
UL voltage rating:	600 V RMS

## Part Number

### Variants

Item #	Color
77805W 010100	Black
77805W 0101000	Black

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