



Part Number: 77805W

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

## **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	Mate	rial	No. of Conductors
	18	105x38	BC - Bare	e Copper	4
Ground	18	105x30	BC - Bare	e Copper	1
Conductor Count:		5			
Total Number of Pairs:		N/A			
Conductor Size:		18 AWG			

#### Insulation

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

## Color Chart



## Outer Shield Material

Туре	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

## 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:	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, LS0H, 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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