



Part Number: 77803W

MachFlex™ Continuous 600V Control, (3) 18 AWG (105x38) BC, PVC/PVC, AWM, CE

Product Description

Two 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
	18	105x38	BC - Bare Copper	2
Ground	18	105x30	BC - Bare Copper	1

Conductor Count:	3
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

Color
Red and Numbered

Outer Shield Material

Type	Material
Unshielded	Unshielded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.298 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
6.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
31 pF/ft

Shielding:	Unshielded
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Inductance

Nominal Inductance
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:	120 lbs/1000ft
Max Recommended Pulling Tension:	40 lbs
Min Bend Radius (Continuous Flexing):	2.4 in
Min Bend Radius/Minor Axis:	2.4 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
77803W 010100	Black
77803W 0101000	Black
77803W 010500	Black

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