



Product: [73805WS](#)

MachFlex™, 5 C #18 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

Product Description

MachFlex™ for Moderate Flex, 5 Conductor 18AWG (16x30) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
18	16x30	BC - Bare Copper	4
18		BC - Bare Copper	1

Conductor Count:	5
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.091 in	0.022 in
PVC - Polyvinyl Chloride		

Color Chart

Color
Black and Numbered

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	.316 in	.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	0.414 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.7 Ohm/1000ft	2.47 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
44 pF/ft

Inductance

Nominal Inductance

.190 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:	1 Million Cycles
Bulk Cable Weight:	217 lbs/1000ft
Max. Pull Tension:	72 lbs
Min Bend Radius (Continuous Flexing):	3.3 in
Min Bend Radius/Minor Axis:	3.3 in

Standards

UL AWM Style Compliance:	AWM 2587
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
73805WS 008100	Gray	Reel	612825410171
73805WS 0081000	Gray	Reel	612825410188
73805WS 008500	Gray	Reel	612825410195

History

Update and Revision:	Revision Number: 0.58 Revision Date: 09-30-2020
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