

**Part Number:** 73003WS



MachFlex™, 3 C #20 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

**Product Description**

MachFlex™ for Moderate Flex, 3 Conductor 20AWG (10x30) 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**

Element	AWG	Stranding	Material	No. of Conductors
Conductor	20	10x30	BC - Bare Copper	2
Ground	20	10x30	BC - Bare Copper	1

Conductor Count:	3
Total Number of Pairs:	N/A
Conductor Size:	20 AWG

**Insulation**

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor	PVC - Polyvinyl Chloride	0.081 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

**Color Chart**

Color
Black and Numbered

**Inner Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	.339 in	.030 in

**Outer Shield Material**

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	85 %

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.339 in	0.035 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
10.7 Ohm/1000ft	3.5 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Conductor
38 pF/ft

**Inductance**

<b>Nominal Inductance</b>
.210 µH/ft

#### Voltage

<b>UL Voltage Rating</b>
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:	137 lbs/1000ft
Max Recommended Pulling Tension:	30 lbs
Min Bend Radius (Continuous Flexing):	2.7 in
Min Bend Radius/Minor Axis:	2.7 in

#### Standards

NEC/(UL) Specification:	THHN, THWN
UL AWM Style:	AWM 2587
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	UPC
73003WS 008100	Gray	612825409014
73003WS 0081000	Gray	612825409021
73003WS 008500	Gray	612825409038

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