



Product: [73003WS](#)

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

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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(s)	20	10x30	BC - Bare Copper	2
Ground	20	10x30	BC - Bare Copper	1
Conductor Count:				3

Insulation			
Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.081 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart	
Color	
Black and Numbered	

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

Outer Shield		
Type	Material	Coverage [%]
Braid	Tinned Copper (TC)	85%

Outer Jacket		
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	
Nominal Inductance	

.210 µH/ft

Voltage

UL Voltage Rating
600 V

Temperature Range

UL Temp Rating:	90°C
Operating Temperature 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. Pull Tension:	30 lbs
Min. Bend Radius (Continuous Flexing):	2.7 in
Min. Bend Radius/Minor Axis:	2.7 in

Standards

NEC/(UL) Compliance:	THHN, THWN
UL AWM Style Compliance:	AWM 2587
CSA AWM Compliance:	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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	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

Related Part Numbers

Variants

Item #	Color	Put-Up Type	UPC
73003WS 008100	Gray	Reel	612825409014
73003WS 0081000	Gray	Reel	612825409021
73003WS 008500	Gray	Reel	612825409038

History

Update and Revision:	Revision Number: 0.150 Revision Date: 05-05-2023
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