



Product: <u>73003WS</u> ☑

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



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)

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



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

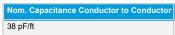
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.339 in	0.035 in

Electrical Characteristics

Conductor DCR

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

Capacitance



Inductance

Nominal Inductance

Voltage



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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