



Product: <u>73012W</u> ☑

MachFlex™, 12 C #20 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

Request Sample

Product Description

MachFlex™ for Moderate Flex, 12 Conductor 20AWG (10x30) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex

Physical Characteristics (Overall)

Conductor

	Element	AWG	Stranding	Material	No. of Conductors
	Conductor(s)	20	10x30	BC - Bare Copper	11
	Ground	20	10x30	BC - Bare Copper	1
ĺ	Conductor Co	unt:		12	2

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



Outer Shield

Туре	Material
No Shield	No Shield

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.433 in	0.045 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 10.7 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor 28 pF/ft

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:	200 lbs/1000ft
Max. Pull Tension:	94 lbs
Min. Bend Radius (Continuous Flexing):	2.2 in
Min. Bend Radius/Minor Axis:	2.2 in

Standards

UL AWM Style Compliance:	AWM 2587
CSA AWM Compliance:	AWM I/II A/B

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
73012W 008100	Gray	Reel	612825409175
73012W 0081000	Gray	Reel	612825409182
73012W 008500	Gray	Reel	612825409199

History

Update and Revision:	Revision Number: 0.136 Revision Date: 05-31-2024

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