



Product: <u>73205WS</u> ☑

MachFlex™, 5 C #12 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 12AWG (65x30) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Product Overview

Suitable Applications:			Ro	obotics, Robot, Continu	uous Flex
Physical Characteristics (Overall)					
Conductor					
Conductor Element	AWG	Stranding	Material	No. of Conductors	

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	12	65x30	BC - Bare Copper	4
Ground	12	65x30	BC - Bare Copper	1
Conductor Co	unt:		5	

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.137 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart



Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	.491 in	.055 in

Outer Shield

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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.671 in	0.073 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
1.65 Ohm/1000ft	1.53 Ohm/1000ft

Capacitance



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:	460 lbs/1000ft
Max. Pull Tension:	271 lbs
Min. Bend Radius (Continuous Flexing):	5.4 in
Min. Bend Radius/Minor Axis:	5.4 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
73205WS 008100	Gray	Reel	612825409380
73205WS 0081000	Gray	Reel	612825409397

History

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