Product: 73407W

MachFlex™, 7 C #14 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

Request Sample

Product Description

MachFlex™ for Moderate Flex, 7 Conductor 14AWG (41x30) Bare Copper, PVC Insulation, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	6	14	41x30	BC - Bare Copper
Ground	1	14	41x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.118 in (3.00 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.118 in (3.00 mm)	Yellow/Green

Outer Shield

Shield Type	Material
No Shield	No Shield

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.058 in (1.5 mm)	0.479 in

Overall Cable Diameter (Nominal):	0.479 in (12.2 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	2.6 Ohm/1000ft	36 pF/ft (120 pF/m)	17 Amps per Conductor at 30ºC
Ground Wire	2.62 Ohm/1000ft (8.60 Ohm/km)		

Voltage

UL Voltage Rating
600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	-40°C To 90°C (Static), -5°C To 90°C (Flexing)

Bend Radius

Flexing Min.
2.4 in (61 mm)

Max. Pull Tension:	225 lbs (102 kg)
Bulk Cable Weight:	328 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Oil Resistance
AWM Compliance:	AWM 2587, AWM I/II A/B
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.141 Revision Date: 05-31-2024

Part Numbers

Variants

Item #	Color	Putup Type	UPC
73407W 008100	Gray	Reel	612825409595
73407W 008500	Gray	Reel	612825409601

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