

Product: 73809W

MachFlex™, 9 C #18 Str BC, PVC Ins, PVC Jkt, AWM 2587 CLASS K

Request Sample

Product Description

MachFlex™ for Moderate Flex, 9 Conductor 18AWG (16x30) 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)	8	18	16x30	BC - Bare Copper
Ground	1	18	16x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.091 in (2.3 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.091 in (2.3 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	0.035 in (0.89 mm)	0.445 in

Overall Cable Diameter (Nominal):	0.445 in (11.3 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	6.7 Ohm/1000ft	31 pF/ft (100 pF/m)	9.8 Amps per Conductor at 30ºC
Ground Wire	6.66 Ohm/1000ft (21.9 Ohm/km)		

Voltage

UL Voltage Rating	Voltage Rating
600 V (AWM 2587)	600 V (CSA AWM I/II A/B)

Mechanical Characteristics

Temperature

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

Bend Radius

Flexing Min.
2.2 in (56 mm)

Max. Pull Tension:	113 lbs (51.3 kg)
Bulk Cable Weight:	300 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), 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: 0.140 Revision Date: 03-27-2024

Part Numbers

Variants

Item #	Color	Putup Type	UPC
73809W 008100	Gray	Reel	612825410263
73809W 0081000	Gray	Reel	612825410270

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