



**Product: <u>73204WS</u>**  ☑

MachFlex™, 4 C #12 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K



# **Product Description**

MachFlex™ for Moderate Flex, 4 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:	Robotics, Robot, Continuous Flex

# **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	12	65x30	BC - Bare Copper
Ground	1	12	65x30	BC - Bare Copper

### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.137 in (3.48 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.137 in (3.48 mm)	Yellow/Green

#### **Outer Shield**

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	85%

# Inner Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	.055 in (1.4 mm)	.450 in (11.4 mm)

## Outer Jacket

Paper Tape PVC - Polyvinyl Chloride 0.066 in (1.7 mm) 0.616 in	Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape PVC - Polyvinyi Chloride 0.000 in (1.7 min) 0.010 in	Paper Tape	PVC - Polyvinyl Chloride	0.066 in (1.7 mm)	0.616 in

Overall Cable Diameter (Nominal): 0.616 in (15.6 mm)

# **Electrical Characteristics**

## Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	1.65 Ohm/1000ft	64 pF/ft (210 pF/m)	24 Amps per Conductor at 30°C
Ground Wire	1.65 Ohm/1000ft (5.41 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.
4.9 in (120 mm)

Max. Pull Tension:	218 lbs (98.9 kg)
Bulk Cable Weight:	374 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: 0.143 Revision Date: 05-31-2024
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#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	UPC
73204WS 008100	Gray	Reel	612825409328
73204WS 0081000	Gray	Reel	612825409335
73204WS 008500	Gray	Reel	612825409342

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