



**Product:** [73804WS](#)

MachFlex™, 4 C #18 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

[Request Sample](#)

Product Description

MachFlex™ for Moderate Flex, 4 Conductor 18AWG (16x30) 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, Robots, Continuous Flex
------------------------	-----------------------------------

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	18	16x30	BC - Bare Copper	3
Ground	18	16x30	BC - Bare Copper	1

Conductor Count:	4
------------------	---

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.091 in	0.022 in
Ground	PVC - Polyvinyl Chloride		

Color Chart

Color
Black and Numbered

Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	.286 in	.030 in

Outer Shield

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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.384 in	0.035 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
6.7 Ohm/1000ft	2.26 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
44 pF/ft

Inductance

Nominal Inductance
.190 µH/ft

Voltage

UL Voltage Rating
600 V

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:	184 lbs/1000ft
Max. Pull Tension:	59 lbs
Min. Bend Radius (Continuous Flexing):	3.1 in
Min. Bend Radius/Minor Axis:	3.1 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
73804WS 008100	Gray	Reel	612825410126
73804WS 0081000	Gray	Reel	612825410133

History

Update and Revision:	Revision Number: 0.250 Revision Date: 09-27-2023
----------------------	--

© 2024 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.