

<u>k</u>	Product: 7411W				
	MachFlex™, 3+1G C #18 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER				
	# Request Sample				

# **Product Description**

MachFlex™ for High Flex, 3+1G Conductor 18AWG (16x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

## **Technical Specifications**

#### Product Overview

Suitable Applications:		Robotio	Robotics, Robot, Continuous Flex					
Constructi	on Details							
onductor								
Element	No. of Elements	Size	Stranding	Material				
Conductor(s)	3	18 AWG	16x30	BC - Bare Copper				
Ground Wire	1	18 AWG	16x30	BC - Bare Copper				
nsulation								
nsulation		atorial		Nom Thickness	Nom Inculation Diameter	Color Codo		
Element		aterial			Nom. Insulation Diameter			
			ide + Nylon	Nom. Thickness 0.021 in (0.53 mm)		Color Code Black and Numbered		

# Material

No Shield

## Outer Jacket

Separator	Material		Nom. Thickness	Nom. Diameter
non-Woven Tape	TPE - Thermoplastic Elastomer		0.047 in (1.2 mm)	0.313 in
Overall Cable Diar	meter (Nominal):	0.313 in		

## **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	6.5 Ohm/1000ft	15 Amps per Conductor at 30°C
Ground Wire	7.06 Ohm/1000ft (23.2 Ohm/km)	24 Amps per Conductor at 30°C

# Voltage

UL Voltage Rating 1000 V (WTTC), 600 V (TC-ER)

## **Mechanical Characteristics**

#### Temperature

UL Temperature	Operating
UL : 90°C Dry, 75°C Wet; AWM 20328 : 105°C	-40°C To 105°C

#### Bend Radius

Stationary Min.	Installation Min
1.25 in (31.8 mm)	1.56 in
Max. Pull Tension	:
Bulk Cable Weigh	t:

#### **Standards and Compliance**

Environmental Suitability:	Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336
AWM Compliance:	AWM 20328, AWM I/II A/B
CEC / C(UL) Compliance:	CIC, TC
European Directive Compliance:	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: 0.374 Revision Date: 01-10-2024

#### **Part Numbers**

#### Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
7411W 060250	Chrome	Reel	250 ft	612825185772	С
7411W 0601000	Chrome	Reel	1,000 ft	612825185765	С
7411W 0605000	Chrome	Reel	5,000 ft	612825185789	

© 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 guality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulators based on their individual usage of the product.

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

7411W 0601000 7411W 060250