



## Product: <u>7108W</u> ☑

MachFlex™, 24+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

😭 Request Sample

## **Product Description**

MachFlex™ for High Flex, 24+1G Conductor 20AWG (74x38) Bare Copper, PVC Insulation, TPE Outer Jacket, PLTC

## **Technical Specifications**

#### Product Overview

Suitable Appli	cations:	Roboti	cs, Robot, Co	ontinu	ious Flex		
Constructi	on Details						
onductor							
Element	No. of Elements	Size	Stranding		Material		
Conductor(s)	24	20 AWG	74x38	BC	- Bare Copper		
Ground Wire	1	20 AWG	74x38	BC	- Bare Copper		
sulation							
Element	Material		Nom. Thickn		Nom. Insulat	ion Diamotor	Color Code
Element	wateriai		Nom. Thickn	ess	Nom. Insulat	ion Diameter	Color Code

Element	wateriai	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.074 in (1.9 mm)	Black and Numbered
Ground Wire	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.074 in (1.9 mm)	Green/Yellow

## Outer Shield

Material

No Shield

## Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	
non-Woven Tape	TPE - Thermoplastic Elastomer	0.053 in (1.3 mm)	0.563 in	
Overall Cable Dia	meter (Nominal): 0.563 in			

### **Electrical Characteristics**

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	10.8 Ohm/1000ft	5.4 Amps per Conductor at 30°C
Ground Wire	10.7 Ohm/1000ft (35.1 Ohm/km)	14.4 Amps per Conductor at 30°C

## Voltage

UL Voltage Rating	Voltage Rating
300 V	600 V

## **Mechanical Characteristics**

### Temperature

UL Temperature	Operating
UL : 90°C, AWM 20327 : 105°C	-40°C To 105°C

#### Bend Radius

Stationary Min.	Installation Min
5.63 in (143 mm	) 5.63 in
Max. Pull Tensic	n:
Bulk Cable Weig	ht:

#### **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 725, PLTC
AWM Compliance:	AWM 20327, AWM I/II A/B
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: 0.369 Revision Date: 01-10-2024

#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7108W 003250	Orange	Reel	250 ft	612825182108	С
7108W 0035000	Orange	Reel	5,000 ft	612825182115	

© 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:

7108W 0031000 7108W 003250