



**Product:** [7108W](#)

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**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
20	74x38	BC - Bare Copper	24
20		BC - Bare Copper	1

Conductor Count:

**Insulation**

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.015 in

**Color Chart**

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Black and Numbered 4
5	Black and Numbered 5
6	Black and Numbered 6
7	Black and Numbered 7
8	Black and Numbered 8
9	Black and Numbered 9
10	Black and Numbered 10
11	Black and Numbered 11
12	Black and Numbered 12
13	Black and Numbered 13
14	Black and Numbered 14
15	Black and Numbered 15
16	Black and Numbered 16
17	Black and Numbered 17
18	Black and Numbered 18
19	Black and Numbered 19
20	Black and Numbered 20
21	Black and Numbered 21
22	Black and Numbered 22
23	Black and Numbered 23
24	Black and Numbered 24
25	Green/Yellow

**Outer Shield Material**

**Material**

No Shield

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.563 in	0.053 in

**Electrical Characteristics****Conductor DCR****Nominal Conductor DCR**

8.8 Ohm/1000ft

**Voltage****UL Voltage Rating**

300 V RMS

600 V RMS

**Temperature Range**

UL Temp Rating:	90°C
Operating Temp Range:	-50°C (-5°C Flexing) To 90°C
Other Temp Range:	Flexing: -5°C To +90 °C

**Mechanical Characteristics**

Oil Resistance:	Yes
Flex Cycle Rating:	10 Million Flexes
Bulk Cable Weight:	266 lbs/1000ft
Max. Pull Tension:	370 lbs
Min Bend Radius (Continuous Flexing):	5.6 in

**Standards**

NEC/(UL) Compliance:	TC
UL AWM Style Compliance:	20327
CSA AWM Compliance:	AWM I/II A/B

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
MII Order #39 (China RoHS):	Yes

**Suitability**

Suitability - Non-Halogenated:	No
Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Sunlight Resistance:	Yes

**Flammability, LSOH, Toxicity Testing**

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

**Plenum/Non-Plenum**

Plenum (Y/N):	No
---------------	----

**Part Number**

## Variants

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

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

## History

Update and Revision:	Revision Number: 0.276 Revision Date: 06-24-2020
----------------------	--

© 2020 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.