



**Product:** [7105W](#)

MachFlex™, 8+1G C #20 Str BC, PVC Ins, TPE Jkt, PLTC

Request Sample

**Product Description**

MachFlex™ for High Flex, 8+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	8
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	Green/Yellow

**Outer Shield Material**

Material
No Shield

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.376 in	0.042 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
8.8 Ohm/1000ft

**Voltage**

UL Voltage Rating
600 V RMS

300 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:	95 lbs/1000ft
Max. Pull Tension:	130 lbs
Min Bend Radius (Continuous Flexing):	3.7 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, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS

## Plenum/Non-Plenum

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

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
7105W 003250	Orange	Reel	250 ft	612825181989
7105W 0031000	Orange	Reel	1,000 ft	612825181972
7105W 0035000	Orange	Reel	5,000 ft	612825181996

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

## History

Update and Revision:	Revision Number: 0.165 Revision Date: 06-24-2020
----------------------	--

© 2021 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.