



**Product:** [7423W](#) 

MachFlex™, 3C+1G #16 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

 [Request Sample](#)

## Product Description

MachFlex™ for High Flex, 3+1G Conductor 16AWG (26x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

## Technical Specifications

### Product Overview

Suitable Applications:	Robotics, Robot, Continuous Flex
------------------------	----------------------------------

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	16 AWG	26x30	BC - Bare Copper
Ground	1	16 AWG	26x30	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	Black and Numbered
Ground	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	Green / Yellow Stripe

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.342 in (8.69 mm)

Overall Cable Diameter (Nominal): 0.342 in (8.69 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR
Conductor(s)	4 Ohm/1000ft (13 Ohm/km)
Ground	4 Ohm/1000ft (13 Ohm/km)

#### Voltage

UL Voltage Rating
(WTTC), 600 V (TC-ER, UL AWM 20328)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	-40°C to +90°C

#### Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1.4 in (36 mm)	1.4 in (36 mm)	3.4 in

Max. Pull Tension:	140 lbs (64 kg)
--------------------	-----------------

Bulk Cable Weight:	79 lbs/1000ft (120 kg/km)
--------------------	---------------------------

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 336, Article 760, TC-ER, WTTC
AWM Compliance:	AWM 20328, AWM 2587, AWM 21486, I/II A/B
CEC / C(UL) Compliance:	CIC, TC

## History

Update and Revision:	Revision Number: 0.341 Revision Date: 09-07-2025
----------------------	--

## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7423W 060250	Chrome	Reel	250 ft	612825186229	C
7423W 0601000	Chrome	Reel	1,000 ft	612825186212	C
7423W 0605000	Chrome	Reel	5,000 ft	612825186236	

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

© 2026 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.