

# Product: <u>7422WS</u>

MachFlex<sup>™</sup>, 2+1G C #16 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTC, 600V TC-ER

😭 Request Sample

# **Product Description**

MachFlex™ for High Flex, 2+1G Conductor 16AWG (26x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

#### **Technical Specifications**

# Product Overview

	lications	:			Robotics,	Robot, Contin	uous Flex
nysical (	Chara	cteristics	(Ove	erall)			
nductor							
Element	AWG	Stranding	N	<b>Naterial</b>	No. of	Conductors	
	16	26x30	BC - I	Bare Coppe	er 2		
Ground Wire	16	26x30	BC - I	Bare Coppe	er 1		
Conductor C	ount:			:	3		
	Mate			Nominal I	Diameter		
VC/Nylon -		rial /I Chloride +	Nylon		Diameter		
			Nylon		Diameter		
olor Chart	Polyviny		Nylon		Diameter		
lor Chart umber	Polyviny	/l Chloride +			Diameter		
olor Chart Number Bi	Polyviny Co ack and	/l Chloride + plor			Diameter		

#### Inner Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
TPE - Thermoplastic Elastomer	0.272 in	0.025 in	No

#### Outer Shield

Туре	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.3 in

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.394 in	0.047 in

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR

#### 4 Ohm/1000ft

#### Voltage

Jila	yer	\aum
	<b>.</b>	

1000 V RMS 600 V RMS

### **Temperature Range**

UL Temp Rating:	75°C Dry, 90°C Wet
Other Temp Range:	Flexing: -5°C To +90 °C

### **Mechanical Characteristics**

Oil Resistance:	Yes
Flex Cycle Rating:	1 Million Flexes
Bulk Cable Weight:	65 lbs/1000ft
Max. Pull Tension:	105 lbs
Min. Bend Radius (Continuous Flexing):	3.2 in

#### **Standards**

NEC/(UL) Compliance:	TC-ER, WTTC
CEC/C(UL) Compliance:	CIC, TC
UL AWM Style Compliance:	AWM 20328
CSA AWM Compliance:	AWM I/II A/B

### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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:	1000 V RMS

### Plenum/Non-Plenum

Plenum (Y/N):	No

# **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC
7422WS 060250	Chrome	Reel	250 ft	612825186205
7422WS 0601000	Chrome	Reel	1,000 ft	612825186199
Footnote:			С	- CRATE REEL

Update and Revision:	Revision Number: 0.380 Revision Date: 01-10-2024

#### © 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 quality 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.