



Product: [7417WS](#)

MachFlex™, 24+1G C #18 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, 1000V WTTC, 600V TC-ER

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Product Description

MachFlex™ for High Flex, 24+1G Conductor 18AWG (16x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Conductors
18	16x30	BC - Bare Copper	24
18	16x30	BC - Bare Copper	1
Conductor Count:			25

Insulation	
Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.089 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

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.602 in	0.025 in

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter
Braid	Tinned Copper (TC)	85%	0.63 in

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.756 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
6.5 Ohm/1000ft

Voltage

UL Voltage Rating
600 V RMS
1000 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:	342 lbs/1000ft
Max. Pull Tension:	575 lbs
Min Bend Radius (Continuous Flexing):	7.6 in

Standards

NEC/(UL) Compliance:	TC-ER, W TTC
CEC/C(UL) Compliance:	CIC, TC
UL AWM Style Compliance:	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 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
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7417WS 060250	Chrome	Reel	250 ft	612825186090
7417WS 0601000	Chrome	Reel	1,000 ft	612825186083

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.162 Revision Date: 06-24-2020
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