



Product: [76218WS](#)

MachFlex™, 18 C #24 Str TC, SRPVC Ins, OS+TC Srv, PVC Jkt, CMG

[Request Sample](#)

Product Description

MachFlex™ for High Flex, 18 Conductor 24AWG (10x34) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Serve(90%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Physical Characteristics (Overall)

Conductor				
Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	24	10x34	TC - Tinned Copper	18
Conductor Count:				18

Insulation		
Element	Material	Nominal Wall Thickness
Conductor(s)	PVC - Polyvinyl Chloride	0.010 in

Outer Shield				
Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	26
Spiral Serve / Screen	Tinned Copper (TC)	90%		

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.327 in	0.040 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	Nominal Outer Shield DCR
29 Ohm/1000ft	3.1 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Conductor	
32 pF/ft	

Inductance	
Nominal Inductance	
.19 µH/ft	

Voltage	
UL Voltage Rating	
300 V	

Temperature Range

UL Temp Rating:	105°C
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Operating Temperature Range:	-10°C To 105°C (Static), 5°C To 105°C (Flexing)
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Mechanical Characteristics

Flex Cycle Rating:	6 Million Cycles
Bulk Cable Weight:	72 lbs/1000ft
Max. Pull Tension:	64 lbs
Min. Bend Radius (Continuous Flexing):	2.6 in
Min. Bend Radius/Minor Axis:	2.6 in

Standards

NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2661, AWM 10002
CSA AWM Compliance:	AWM I/II A/B

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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)
EU CE Mark:	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Related Part Numbers

Variants

Item #	Color	Put-Up Type	UPC
76218WS 008100	Gray	Reel	612825410904
76218WS 0081000	Gray	Reel	612825410911

History

Update and Revision:	Revision Number: 0.141 Revision Date: 05-31-2024
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