



Product: [7123WS](#)

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

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Product Description

MachFlex™ for High Flex, 3+1G Conductor 16AWG (168(7x24) x38) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTTC, 600V TC-ER

Technical Specifications

Construction Details

Conductor				
Element	Number of Element	Size	Stranding	Material
Conductor(s)	3	16 AWG	168x38	BC - Bare Copper
Ground Wire	1	16 AWG	168x38	BC - Bare Copper

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Black and Numbered
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Green/Yellow

Outer Shield		
Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	87%

Separator	Material	Nom. Thickness	Nom. Diameter	Color
non-Woven Tape	TPE - Thermoplastic Elastomer	0.025 in (0.64 mm)	0.313 in (7.95 mm)	Orange

Material	Nom. Thickness	Nom. Diameter
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.435 in
Overall Cable Diameter (Nominal): 0.435 in		

Electrical Characteristics

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.18 Ohm/1000ft	19 Amps per Conductor at 30°C
Ground Wire	4.45 Ohm/1000ft (14.6 Ohm/km)	30.4 Amps per Conductor at 30°C

UL Voltage Rating
1000 V (WTTTC), 600 V (TC-ER)

Mechanical Characteristics

UL Temperature	Operating
UL : 90°C Dry, 75°C Wet; AWM 20328 : 105°C	-40°C To 105°C

Bend Radius

Stationary Min.	Installation Min.
1.74 in (44.2 mm)	2.17 in

Max. Pull Tension:	155.7 lbs (70.62 kg)
Bulk Cable Weight:	133 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336
AWM Compliance:	AWM 20328, AWM I/II A/B
CEC / C(UL) Compliance:	CIC, TC
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.389 Revision Date: 05-05-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
7123WS 003250	Orange	Reel	250 ft	612825182344
7123WS 0031000	Orange	Reel	1,000 ft	612825358923

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