Product: 7453W ⧉

MachFlex™, 3+1 C #6 Str BC, PVC-NYL Ins, TPE Jkt, 1000V WTTC, 600V TC-ER

⠿ Request Sample

Product Description

MachFlex™ for High Flex, 3+1 Conductor 6AWG (259(7x37)x30) Bare Copper, PVC-NYL Insulation, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
	6	259x30	BC - Bare Copper	3
Ground Wire	6	259x30	BC - Bare Copper	1

Conductor Count:	4

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.276 in

Color Chart

Number	Color
1	Black and Numbered 1
2	Black and Numbered 2
3	Black and Numbered 3
4	Green/Yellow

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.875 in	0.085 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.36 Ohm/1000ft

Voltage

UL Voltage Rating
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
Bulk Cable Weight:	591 lbs/1000ft
Max Recommended Pulling Tension:	1472 lbs
Min Bend Radius (Continuous Flexing):	8.8 in

Standards

NEC/(UL) Specification:	TC-ER, WTTC
CEC/C(UL) Specification:	CIC, TC
UL AWM Style:	20328
CSA AWM Specification:	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:	1000 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7453W 060250	Chrome	Reel	250 ft	612825187035

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.160 Revision Date: 04-28-2020

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable]():
[7453W 060250]() [7453W 0601000]()