



Product: <u>7450WS</u> ☑

MachFlex™, 3+1 C #8 Str BC, PVC-NYL Ins, OA TC Brd, TPE Jkt, TPE Jkt, 1000V WTTC, 600V TC-ER

Request Sample
Requ

# **Product Description**

MachFlex™ for High Flex, 3+1 Conductor 8AWG (168(7x24)x30) Bare Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(85%) Shield, TPE Inner Jacket, TPE Outer Jacket, 1000V WTTC, 600V TC-ER

# **Technical Specifications**

## **Construction Details**

| Element      | Number of Element | Size  | Stranding | Material         |
|--------------|-------------------|-------|-----------|------------------|
| Conductor(s) | 3                 | 8 AWG | 168x30    | BC - Bare Copper |
| Ground Wire  | 1                 | 8 AWG | 168x30    | BC - Bare Copper |

#### Insulation

Conductor

| Element      | Material                               | Nom. Thickness    | Nom. Insulation Diameter | Color Code         |
|--------------|--|-------------------|--------------------------|--------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.040 in (1.0 mm) | 0.26 in (6.6 mm)         | Black and Numbered |
| Ground Wire  | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.040 in (1.0 mm) | 0.26 in (6.6 mm)         | Green/Yellow       |

# Outer Shield

| Shield Type | Material           | Coverage |
|-------------|--------------------|----------|
| Braid       | Tinned Copper (TC) | 85%      |

#### Inner Jacket

| Separator      | Material                      | Nom. Thickness    | Nom. Diameter      | Color  |
|----------------|-------------------------------|-------------------|--------------------|--------|
| non-Woven Tape | TPE - Thermoplastic Elastomer | 0.040 in (1.0 mm) | 0.712 in (18.1 mm) | Chrome |

# Outer Jacket

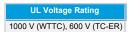
|    | Material                      | Nom. Thickness    | Nom. Diameter |
|----|-------------------------------|-------------------|---------------|
| TP | PE - Thermoplastic Elastomer  | 0.085 in (2.2 mm) | 0.91 in       |
| Ov | verall Cable Diameter (Nomina | l): 0.91 in       |               |

# **Electrical Characteristics**

#### Electricals

| Element      | Nom. Conductor DCR            | Max. Current                  |
|--------------|-------------------------------|-------------------------------|
| Conductor(s) | 1 Ohm/1000ft                  | 57 Amps per Conductor at 25°C |
| Ground Wire  | 1.08 Ohm/1000ft (3.54 Ohm/km) |                               |

# Voltage



# **Mechanical Characteristics**

## Temperature

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

#### Bend Radius

| 10.92 in (277.4 mm) 10.92 in |
|------------------------------|
|                              |
| Max. Pull Tension: 10        |
| Bulk Cable Weight: 52        |

## **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: 0.379 Revision Date: 05-05-2023 |
|----------------------|--|

#### **Part Numbers**

## Variants

| ltem #         | Color  | Putup Type | Length   | UPC          |
|----------------|--------|------------|----------|--------------|
| 7450WS 060250  | Chrome | Reel       | 250 ft   | 612825186991 |
| 7450WS 0601000 | Chrome | Reel       | 1,000 ft | 612825186984 |

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