



Product: [76303WS](#)

MachFlex™, 3 C #22 Str TC, SRPVC Ins, OS+TC Srv, PVC Jkt, CMG

[Request Sample](#)

Product Description

MachFlex™ for High Flex, 3 Conductor 22AWG (19x34) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Serve(90%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|--------------|-------------------|------|-----------|--------------------|
| Conductor(s) | 3 | 22 | 19x34 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------|--------------------|--------------------------|-------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | 0.010 in (0.25 mm) | 0.052 in (1.3 mm) | Black, Red, White |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-----------------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 26 AWG (7x34) TC |
| Spiral Serve / Screen | Tinned Copper (TC) | 90% | |

Outer Jacket

| Separator | Material | Nom. Thickness | Nom. Diameter |
|------------|--------------------------|-------------------|---------------|
| Paper Tape | PVC - Polyvinyl Chloride | 0.040 in (1.0 mm) | 0.217 in |

Overall Cable Diameter (Nominal): 0.217 in (5.51 mm)

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Max. Current |
|--------------------|-------------------------------|------------------------------|
| 15.3 Ohm/1000ft | 38 pF/ft (120 pF/m) | 5 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating | Voltage Rating |
|-------------------|--------------------------|
| 300 V (AWM 2661) | 300 V (CSA AWM I/II A/B) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|---|
| 105°C | -10°C To 105°C (Static), 5°C To 105°C (Flexing) |

Bend Radius

| Flexing Min. |
|----------------|
| 1.7 in (43 mm) |

| | |
|--------------------|--------------------|
| Max. Pull Tension: | 22.6 lbs (10.3 kg) |
| Bulk Cable Weight: | 34 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL 1685 UL loading, FT4, FT4 |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | AWM 2661, AWM 10002, AWM I/II A/B |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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: 0.139 Revision Date: 12-20-2022 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | UPC |
|-----------------|-------|------------|--------------|
| 76303WS 008100 | Gray | Reel | 612825410973 |
| 76303WS 0081000 | Gray | Reel | 612825410980 |
| 76303WS 008500 | Gray | Reel | 612825410997 |

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.