BELDEN

Product: [73803WS](#) ⬈

MachFlex™, 3 C #18 Str BC, PVC Ins, OA TC Brd, PVC Jkt, PVC Jkt, AWM 2587 CLASS K

⊞ Request Sample

Product Description

MachFlex™ for Moderate Flex, 3 Conductor 18AWG (16x30) Bare Copper, PVC Insulation, Overall Tinned Copper Braid(85%) Shield, PVC Inner Jacket, PVC Outer Jacket, AWM 2587 CLASS K

Technical Specifications

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	18	16x30	BC - Bare Copper
Ground	1	18	16x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.091 in (2.3 mm)	Black and Numbered
Ground	PVC - Polyvinyl Chloride	0.022 in (0.56 mm)	0.091 in (2.3 mm)	Yellow/Green

Outer Shield

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

Inner Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	.030 in (0.76 mm)	.262 in (6.65 mm)

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter
Paper Tape	PVC - Polyvinyl Chloride	0.035 in (0.89 mm)	0.360 in

Overall Cable Diameter (Nominal): 0.360 in (9.14 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	6.7 Ohm/1000ft	44 pF/ft (140 pF/m)	14 Amps per Conductor at 30ºC
Ground Wire	6.66 Ohm/1000ft (21.9 Ohm/km)		

Voltage

UL Voltage Rating	Voltage Rating
600 V (AWM 2587)	600 V (CSA AWM I/II A/B)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	-40°C To 90°C (Static), -5°C To 90°C (Flexing)

Bend Radius

Flexing Min.
2.9 in (74 mm)

Max. Pull Tension:	44 lbs (20 kg)
Bulk Cable Weight:	159 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Oil Resistance
AWM Compliance:	AWM 2587, AWM I/II A/B
European Directive Compliance:	EU CE Mark, 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: 0.142 Revision Date: 05-31-2024

Part Numbers

Variants

Item #	Color	Putup Type	UPC
73803WS 008100	Gray	Reel	612825410065
73803WS 0081000	Gray	Reel	612825410072
73803WS 008500	Gray	Reel	612825410089