



**Product:** [18X1.0](#)

MachFlex™ 350YY, 18C 1 mm² Str BC, PVC Ins, PVC Jkt

**Product Description**

MachFlex™ 350YY Control VDE Certified, 18 Conductor 1 mm² Stranded Bare Copper, PVC Insulation, PVC Jacket

**Technical Specifications**

**Product Overview**

Suitable Applications:	Applicable for occasional flexing or fixed installation connecting precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more.
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**Construction Details**

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	18	1 mm²	Stranded	Class 5	BC - Bare Copper

Element	Material	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11, Black #12, Black #13, Black #14, Black #15, Black #16, Black #17, Black #18

Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	12.9 mm (0.508 in)

**Electrical Characteristics**

Voltage Rating
300/500 V (Max. Operating Voltage)

**Mechanical Characteristics**

Operating	Installation
-15°C to +70°C(Occasional movement)	-40°C to +80°C(Fixed installation)

Installation Min.	Flexing Min.
51.6 mm (2.03 in)	129 mm (5.08 in)

Bulk Cable Weight:	291 kg/km (196 lbs/1000ft)
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**Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 048233212, DIN EN 6033212

Third Party Performance Verification:	VDE Certification No. 40041970, VDE Registration No. 8770
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	VDE 0285-525-2-51, IEC 60227-5, EN 50525-2-51

History

Update and Revision:	Revision Number: 0.63 Revision Date: 03-19-2024
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Part Numbers

Variants

Item #	Color	Length
18X1.0 010100M	Black, RAL 9004	100 m
18X1.0 010200M	Black, RAL 9004	200 m
18X1.0 010300M	Black, RAL 9004	300 m
18X1.0 G8U100M	Gray, RAL 7001	100 m
18X1.0 G8U200M	Gray, RAL 7001	200 m
18X1.0 G8U300M	Gray, RAL 7001	300 m

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