



**Product:** [18G1.0CY](#)

MachFlex™ 350CY, 17+1G C 1.0mm<sup>2</sup> Str BC, PVC Ins, PVC Inner Jkt, TCBS, PVC Outer Jkt

**Product Description**

MachFlex™ 350CY Control VDE Certified, 17 Conductor + 1 Ground 1.0mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, PVC Inner Jacket, Tinned Copper Braid Shield, PVC Outer 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 in noisy industrial environment.
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**Physical Characteristics (Overall)**

**Conductor**

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	1 mm <sup>2</sup>	Class 5	BC - Bare Copper	17
Ground	1 mm <sup>2</sup>	Class 5	BC - Bare Copper	1

Conductor Count:	18
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**Insulation**

Material
PVC - Polyvinyl Chloride

**Color Chart**

Color
Black #1
Black #2
Black #3
Black #4
Black #5
...
Black #17
Green/Yellow

**Inner Jacket**

Material
PVC - Polyvinyl Chloride

**Outer Shield**

Type	Material
Braid	Tinned Copper (TC)

**Outer Jacket**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	15.8 mm

**Electrical Characteristics**

## Conductor DCR

### Max. Conductor DCR

19.5 Ohm/km

## Voltage

Dielectric Withstand Voltage	Non-UL Description	Non-UL Voltage Rating
4000 V	IEC:	300/500 V

## Temperature Range

Installation Temp Range:	40°C to +80°C
Operating Temp Range:	15°C to +70°C

## Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	418 kg/km
Min. Bend Radius During Installation:	6 x OD
Min. Bend Radius During Operation:	20 x OD

## Standards

Other Specification:	IEC 60227-5, EN 50525-2-51, VDE 0281-13
Third Party Performance Verification:	VDE Certification No. 40041970, VDE Registration No. 8770

## Applicable Environmental and Other Programs

EU Directive 2011/65/EU (RoHS 2):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
Other Flammability:	DIN VDE 0482-332-1-2, DIN EN 60332-1-2

## Part Number

### Variants

Item #	Color	Length
18G1.0CY 01050M	Black, RAL 9005	50 m
18G1.0CY 010100M	Black, RAL 9005	100 m
18G1.0CY 010200M	Black, RAL 9005	200 m
18G1.0CY 36850M	Clear, Transparent	50 m
18G1.0CY 368100M	Clear, Transparent	100 m
18G1.0CY 368200M	Clear, Transparent	200 m
18G1.0CY G8U50M	Gray, RAL 7001	50 m
18G1.0CY G8U100M	Gray, RAL 7001	100 m
18G1.0CY G8U200M	Gray, RAL 7001	200 m

## History

Update and Revision: Revision Number: 0.44 Revision Date: 12-15-2021

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