

**Product:** [18G0.5NCY](#) 



MachFlex™ 350NCY, 17 C + 1 G 0.5 mm<sup>2</sup> Str BC, PVC Ins, TCBS, PVC Outer Jkt

## Product Description

MachFlex™ Control Cable 350NCY, 17 Conductors + 1 Ground 0.5 mm<sup>2</sup> Stranded Bare Copper, PVC Insulation, 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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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Stranding Class	Material
Conductor(s)	18	0.5 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper
Ground	1	0.5 mm <sup>2</sup>	Stranded	Class 5	BC - Bare Copper

#### Insulation

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
Ground	PVC - Polyvinyl Chloride	Yellow/Green

#### Outer Shield

Shield Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket

Material	
PVC - Polyvinyl Chloride	
Overall Cable Diameter (Nominal):	11.6 mm (0.457 in)

### Electrical Characteristics

#### Voltage

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

### Mechanical Characteristics

#### Temperature

Operating	Installation
-5°C to +70°C (Continuous movement)	40°C to +80°C (Fixed installation)

#### Bend Radius

Stationary Min.	Installation Min.
174 mm (6.85 in)	69.6 mm (2.74 in)

Bulk Cable Weight:	221 kg/km (149 lbs/1000ft)
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## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, UV Resistance, Oil Resistance - EN 50290-2-22 (TM54)
Flammability / Reaction to Fire:	IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2
European Directive Compliance:	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, EN 50525-2-51

## History

Update and Revision:	Revision Number: 0.6 Revision Date: 12-20-2024
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## Part Numbers

### Variants

Item #	Color	Length
18G0.5NCY 010100M	Black	100 m
18G0.5NCY 010200M	Black	200 m
18G0.5NCY 010300M	Black	300 m
18G0.5NCY 006100M	Blue	100 m
18G0.5NCY 006200M	Blue	200 m
18G0.5NCY 006300M	Blue	300 m
18G0.5NCY G8U100M	Gray, RAL 7001	100 m
18G0.5NCY G8U200M	Gray, RAL 7001	200 m
18G0.5NCY G8U300M	Gray, RAL 7001	300 m

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