


Product: [21X1.0](#) 



MachFlex™ 350YY, 21 C 1.0mm² Str BC, PVC Ins, PVC Jkt

Product Description

MachFlex™ 350YY Control VDE Certified, 21 Conductor 1.0mm² Stranded Bare Copper, PVC Insulation, PVC Jacket

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Designed for applications which are installed in occasional flexing and fixed locations. Cable applications include precision control sensors, multi axis control machines, temperature controllers, control panels, machine cutting tools, auxiliary equipment, motor speed control, production machinery and many more. |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|--------------|-------------------|-----------|------------------|-------------------|
| Conductor(s) | 1 mm ² | Class 5 | BC - Bare Copper | 21 |

Conductor Count: 21

Insulation

| Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Color Chart

| Color |
|-----------|
| Black #1 |
| Black #2 |
| Black #3 |
| Black #4 |
| Black #5 |
| ... |
| Black #21 |

Outer Jacket

| Nominal Diameter |
|------------------|
| 13.7 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 Temperature Range: | -40°C to +80°C |
|---------------------------------|----------------|

| | |
|------------------------------|----------------|
| Operating Temperature Range: | -15°C to +70°C |
|------------------------------|----------------|

Mechanical Characteristics

| | |
|---------------------------------------|-----------|
| Oil Resistance: | Yes |
| UV Resistance: | Yes |
| Bulk Cable Weight: | 327 kg/km |
| Min. Bend Radius During Installation: | 4 x OD |
| Min. Bend Radius During Operation: | 10 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 |

Related Part Numbers

Variants

| Item # | Color | Length |
|----------------|-----------------|--------|
| 21X1.0 010305M | Black, RAL 9005 | 305 m |
| 21X1.0 010500M | Black, RAL 9005 | 500 m |
| 21X1.0 G8U305M | Gray, RAL 7001 | 305 m |
| 21X1.0 G8U500M | Gray, RAL 7001 | 500 m |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.20 Revision Date: 04-08-2022 |
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