



Product: [UHF4G16](#)

MachFlex™ High Flex 350YY UL Certified, 3 C + 1 G 16 mm² Str BC, PVC Ins, PVC Outer Jkt

Product Description

MachFlex™ High Flex Control 350YY UL Certified, 3 Conductors + Ground 16 mm² 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. This type of cables with flex cycles more than 5 millions would be ideally applied to drag chain and the frequently moving fields. This product group also meets UL standard requirements.

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 3 | 16 mm² | Stranded | BC - Bare Copper |
| Ground | 1 | 16 mm² | Stranded | BC - Bare Copper |

Insulation

| Element | Material | Color Code |
|--------------|--------------------------|------------------------------|
| Conductor(s) | PVC - Polyvinyl Chloride | Black #1, Black #2, Black #3 |
| Ground | PVC - Polyvinyl Chloride | Yellow/Green |

Outer Jacket

| Material |
|---|
| PVC - Polyvinyl Chloride |
| Overall Cable Diameter (Nominal): 22 mm (0.87 in) |

Electrical Characteristics

Voltage

| UL Voltage Rating | Voltage Rating |
|--------------------------------|--|
| 300 V (Max. Operating Voltage) | 300/500 V (Max. Operating Voltage (VDE)), 4000 V (Testing Voltage) |

Mechanical Characteristics

Temperature

| Operating | Installation |
|--|--|
| 0°C to +70°C (UL: +80°C) (Continuous movement) | 40°C to +80°C (UL: +80°C) (Fixed installation) |

Table Notes: Drag Chain Performance : 1m Travel Distance, Travel Speed 2m/s, Acceleration 4m/s² ≥ 5,000,000 Cycles; 5m Travel Distance, Travel Speed 3m/s, Acceleration 10m/s² ≥ 200,000 Cycles****

Bend Radius

| Stationary Min. | Installation Min. |
|---|-------------------|
| 165 mm (6.50 in) | 88 mm (3.5 in) |
| Bulk Cable Weight: 966 kg/km (649 lbs/1000ft) | |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | UV Resistance, Oil Resistance - EN 50290-2-22 (TM54) |
| Flammability / Reaction to Fire: | FT 1 , VW-1, IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2 |
| AWM Compliance: | AWM 2464, AWM I/II A/B |
| ISO/IEC Compliance: | IEC 60228 |
| CENELEC Compliance: | EN 50363-4-1, EN 50363-3 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2) |
| Other Standard Compliance(s): | VDE 0285, UL 1581, VDE 0295, DIN VDE 0207-363-4-1, BS 6360 |

Product Notes

| | |
|--------|--|
| Notes: | General Reference Standards : DIN VDE 0245, DIN VDE 0207-363-3, DIN VDE 0473-811-2-1, DIN EN 60811-2-1 |
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History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.5 Revision Date: 10-22-2024 |
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Part Numbers

Variants

| Item # | Color | Length |
|-----------------|----------------|--------|
| UHF4G16 010200M | Black | 200 m |
| UHF4G16 010300M | Black | 300 m |
| UHF4G16 010500M | Black | 500 m |
| UHF4G16 006200M | Blue | 200 m |
| UHF4G16 006300M | Blue | 300 m |
| UHF4G16 006500M | Blue | 500 m |
| UHF4G16 G8U200M | Gray, RAL 7001 | 200 m |
| UHF4G16 G8U300M | Gray, RAL 7001 | 300 m |
| UHF4G16 G8U500M | Gray, RAL 7001 | 500 m |

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