



Product: [12G0.75CH](#)

MachFlex™ 350CH, 12 C+1G 0.75 mm² Str BC, PP Ins, TCBS, LSZH Jkt

Product Description

MachFlex™ 350CH, 12 Conductor + 1 Ground 0.75 mm² Stranded Bare Copper, PP Insulation, Tinned Copper Braid Shield, LSZH 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. Tinned copper braid shield ensures cables with excellent noise immunity. This LSZH material emits limited smoke and no halogen when exposed to high sources of heat. It can considerably reduce the amount and density of the smoke, toxic and corrosive gas emitted during a fire, enable easier evacuation as well as safer firefighting operations. |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|----------------------|-----------|------------------|
| Conductor(s) | 11 | 0.75 mm ² | Class 5 | BC - Bare Copper |
| Ground | 1 | 0.75 mm ² | Class 5 | BC - Bare Copper |

Insulation

| Material | Color Code |
|--------------------|--|
| PP - Polypropylene | Black #1, Black #2, Black #3, Black #4, Black #5, Black #6, Black #7, Black #8, Black #9, Black #10, Black #11 |
| PP - Polypropylene | Green/Yellow |

Outer Shield

| Shield Type | Material |
|-------------|--------------------|
| Braid | Tinned Copper (TC) |

Inner Jacket

| Material |
|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) |

Outer Jacket

| Material | Nom. Diameter |
|---|-----------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 13 mm (0.51 in) |

Electrical Characteristics

Voltage

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

Mechanical Characteristics

Temperature

| Operating | Installation |
|--------------------------------------|-------------------------------------|
| -30°C to +70°C (Occasional movement) | -40°C to +80°C (Fixed installation) |

Bend Radius

| Installation Min. | Flexing Min. |
|-------------------|----------------|
| 78 mm (3.1 in) | 260 mm (10 in) |

Bulk Cable Weight: 252 kg/km (169 lbs/1000ft)

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Sunlight Resistance, UV Resistance, Oil Resistance - 70°C x 4h |
| Flammability / Reaction to Fire: | IEC 60332-1-2, DIN VDE 0482-332-1-2, DIN EN 60332-1-2 |
| ISO/IEC Compliance: | IEC 60228 |
| CENELEC Compliance: | EN 50290-2-25, EN 50290-2-27 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2) |
| Other Standard Compliance(s): | VDE 0295, IEC 60227-5, EN 50525-3-11, BS 6360 |

Product Notes

Notes: Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2, VDE 0482-754-1, VDE 0482-754-2

History

Update and Revision: Revision Number: 0.54 Revision Date: 05-09-2024

Part Numbers

Variants

| Item # | Color | Length |
|-------------------|----------------|--------|
| 12G0.75CH 010100M | Black | 100 m |
| 12G0.75CH 010200M | Black | 200 m |
| 12G0.75CH 010300M | Black | 300 m |
| 12G0.75CH 006100M | Blue | 100 m |
| 12G0.75CH 006200M | Blue | 200 m |
| 12G0.75CH 006300M | Blue | 300 m |
| 12G0.75CH G8U100M | Gray, RAL 7001 | 100 m |
| 12G0.75CH G8U200M | Gray, RAL 7001 | 200 m |
| 12G0.75CH G8U300M | Gray, RAL 7001 | 300 m |

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