



Product: <u>3G0.5CH</u> ☑

MachFlex™ 350CH, 3 C+1G 0.5 mm² Str BC, PP Ins, TCBS, LSZH Jkt

# **Product Description**

MachFlex™ 350CH, 3 Conductor + 1 Ground 0.5 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)	2	0.5 mm <sup>2</sup>	Class 5	BC - Bare Copper
Ground	1	0.5 mm <sup>2</sup>	Class 5	BC - Bare Copper

### Insulation

Material	Color Code
PP - Polypropylene	Black #1, Black #2
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)	7.4 mm (0.29 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.
44.4 mm (1.75 in)	148 mm (5.83 in)

Bulk Cable Weight: 76 kg/km (51 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
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## **History**

Update and Revision:
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### **Part Numbers**

#### Variants

Item #	Color	Length
3G0.5CH 010100M	Black	100 m
3G0.5CH 010200M	Black	200 m
3G0.5CH 010300M	Black	300 m
3G0.5CH 006100M	Blue	100 m
3G0.5CH 006200M	Blue	200 m
3G0.5CH 006300M	Blue	300 m
3G0.5CH G8U100M	Gray, RAL 7001	100 m
3G0.5CH G8U200M	Gray, RAL 7001	200 m
3G0.5CH G8U300M	Gray, RAL 7001	300 m

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