



Product: [12X1.0CH](#)

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

Product Description

MachFlex™ 350CH, 12 C 1 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.
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Construction Details

Conductor				
Element	No. of Elements	Size	Stranding	Material
Conductor(s)	12	1 mm²	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, Black #12

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)	13.8 mm (0.543 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.
82.8 mm (3.26 in)	276 mm (10.9 in)

Bulk Cable Weight:	290 kg/km (190 lbs/1000ft)
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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:	Revision Number: 0.21 Revision Date: 07-15-2024
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Part Numbers

Variants

Item #	Color	Length
12X1.0CH 010100M	Black	100 m
12X1.0CH 010200M	Black	200 m
12X1.0CH 010300M	Black	300 m
12X1.0CH 006100M	Blue	100 m
12X1.0CH 006200M	Blue	200 m
12X1.0CH 006300M	Blue	300 m
12X1.0CH G8U100M	Gray, RAL 7001	100 m
12X1.0CH G8U200M	Gray, RAL 7001	200 m
12X1.0CH G8U300M	Gray, RAL 7001	300 m

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