



Product: [3P1.0HCH](#)

MachFlex™ LiHCH (TP), 3 Pr 1mm² Str BC, PE Ins, TCBS, LSZH Jkt

Product Description

MachFlex™ LiHCH (TP) Signal Cables, 3 Pair 1mm² Stranded Bare Copper, Polyethylene 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, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, production machinery and many more. Tinned cooper braid shield ensure the cables with excellent noise immunity. Twistedpair (TP) design reduced crosstalk effects. This LSZH version with UL certification 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
Pair(s)	3	1 mm²	Stranded	BC - Bare Copper

Insulation	
Material	Color Code
PE - Polyethylene	1. White & Brown, 2. Green & Yellow, 3. Grey & Pink

Outer Shield	
Shield Type	Material
Braid	Tinned Copper (TC)

Outer Jacket	
Material	
LSZH - Low Smoke Zero Halogen (Flame Retardant)	

Overall Cable Diameter (Nominal):	9 mm (0.35 in)
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Electrical Characteristics

Voltage	
Voltage Rating	
500 V (Max. Operating Voltage), 1500 V (Testing Voltage)	

Mechanical Characteristics

Temperature	
Operating	Installation
-5°C to +70°C (Occasional movement)	-40°C to +80°C (Fixed installation)

Bend Radius	
Stationary Min.	Installation Min.
135 mm (5.31 in)	54 mm (2.1 in)

Bulk Cable Weight:	109 kg/km (73.2 lbs/1000ft)
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Standards and Compliance

Environmental Suitability:	UV Resistance
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 50290-2-23, 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, BS 6360, VDE 0812, DIN 47100

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: 0.17 Revision Date: 07-15-2024
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Part Numbers

Variants

Item #	Color	Length
3P1.0HCH 010100M	Black	100 m
3P1.0HCH 010200M	Black	200 m
3P1.0HCH 010300M	Black	300 m
3P1.0HCH 006100M	Blue	100 m
3P1.0HCH 006200M	Blue	200 m
3P1.0HCH 006300M	Blue	300 m
3P1.0HCH F2V100M	Gray, RAL 7032	100 m
3P1.0HCH F2V200M	Gray, RAL 7032	200 m
3P1.0HCH F2V300M	Gray, RAL 7032	300 m

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