



Product: [12P0.5HH](#) 

MachFlex™ LiHH (TP), 12 Pr 0.5mm² Str BC, PE Ins, LSZH Jkt

Product Description

MachFlex™ LiHH (TP), 12 Pair 0.5mm² Stranded Bare Copper, Polyethylene Insulation, LSZH Jacket

Technical Specifications

Product Overview

Suitable Applications:	Applicable for occasional flexing or fixed installation connecting precision control sensors, pressure gauge, temperature controllers, control panels, vibration monitoring systems, intelligent security controllers, production machinery and many more in signal transmission accuracy required fields and confined space.
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Construction Details

Conductor

Element	Size	Stranding	Material
Pair(s)	0.5 mm ²	Stranded	BC - Bare Copper

Insulation

Material	Color Code
PE - Polyethylene	1. White & Brown, 2. Green & Yellow, 3. Grey & Pink, 4. Red & Blue, 5. Black & Violet, 6. Gray/Pink & Red/Blue, 7. White/Green & Brown/Green, 8. White/Yellow & Yellow/Brown, 9. White/Gray & Gray/Brown, 10. White/Pink & Pink/Brown, 11. White/Blue & Brown/Blue, 12. White/Red & Brown/Red

Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal):	12.9 mm (0.508 in)
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Electrical Characteristics

Voltage

Voltage Rating
500 V (Max. Operating 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.
193.5 mm (7.618 in)	77.4 mm (3.05 in)

Bulk Cable Weight:	203 kg/km (136 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
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 0812
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Product Notes

Notes:	Smoke/Halogen Properties : IEC 61034-2, IEC 60754-1, IEC 60754-2
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History

Update and Revision:	Revision Number: 0.29 Revision Date: 01-15-2026
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Part Numbers

Variants

Item #	Color	Length
12P0.5HH 010100M	Black	100 m
12P0.5HH 010200M	Black	200 m
12P0.5HH 010300M	Black	300 m
12P0.5HH 006100M	Blue	100 m
12P0.5HH 006200M	Blue	200 m
12P0.5HH 006300M	Blue	300 m
12P0.5HH F2V100M	Gray, RAL 7032	100 m
12P0.5HH F2V200M	Gray, RAL 7032	200 m
12P0.5HH F2V300M	Gray, RAL 7032	300 m

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