



Product: [6P0.75HCH](#)

MachFlex™ LiHCH (TP), 6 Pr 0.75mm² Str BC, PE Ins, TCBS, LSZH Jkt

Product Description

MachFlex™ LiHCH (TP) Signal Cables, 6 Pair 0.75mm² 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 copper 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. |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|---------|-----------------|----------------------|-----------|------------------|
| Pair(s) | 6 | 0.75 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 |

Outer Shield

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

Outer Jacket

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

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|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 10.9 mm (0.429 in) |
|-----------------------------------|--------------------|

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. |
|---------------------|-------------------|
| 163.5 mm (6.437 in) | 65.4 mm (2.57 in) |

| | |
|--------------------|----------------------------|
| Bulk Cable Weight: | 159 kg/km (107 lbs/1000ft) |
|--------------------|----------------------------|

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 50290-2-23EN 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

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| 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

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|----------------------|---|
| Update and Revision: | Revision Number: 0.15 Revision Date: 07-04-2024 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Length |
|-------------------|----------------|--------|
| 6P0.75HCH 010100M | Black | 100 m |
| 6P0.75HCH 010200M | Black | 200 m |
| 6P0.75HCH 010300M | Black | 300 m |
| 6P0.75HCH 006100M | Blue | 100 m |
| 6P0.75HCH 006200M | Blue | 200 m |
| 6P0.75HCH 006300M | Blue | 300 m |
| 6P0.75HCH F2V100M | Gray, RAL 7032 | 100 m |
| 6P0.75HCH F2V200M | Gray, RAL 7032 | 200 m |
| 6P0.75HCH F2V300M | Gray, RAL 7032 | 300 m |

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