

## LIHCH TP



### Anwendung

Für flexible Anwendung bei freier Bewegung ohne Zugbeanspruchung und ohne zwangsweise Bewegungsführung in trockenen, feuchten und nassen Räumen, jedoch nicht im Freien, als Steuer- und Signalleitung für störstrahlungsgefährdete Anlagen. Durch das dichte Abschirmgeflecht werden Störungen durch parallel verlaufende Leitungen unterdrückt. Durch die Paarverseilung werden günstige Nebensprechdämpfungswerte erreicht.

### Normen

IEC 60332-1-2, IEC 60332-3-24 (Cat. C)  
IEC 61034-2, IEC 60754-2, IEC 60754-1

CE = Das Produkt ist konform zur EG-Niederspannungsrichtlinie 2014/35/EU.

### Aufbau

|                            |   |
|----------------------------|---|
| <b>Innenleiter</b>         | Kupferleiter, blank, feindrähtig Klasse 5 |
| <b>Aderisolierung</b>      | halogenfreies Polymer                     |
| <b>Aderfarbcode</b>        | DIN 47100                                 |
| <b>Verseilelement</b>      | in Lagen                                  |
| <b>Innenmantelmaterial</b> | PE Folie                                  |
| <b>Gesamtschirmung</b>     | Kupfergeflecht, verzinkt                  |
| <b>Außenmantelmaterial</b> | halogenfreies Polymer                     |

### Techn. Daten

|                                     |                      |
|-------------------------------------|----------------------|
| <b>Nennspannung</b>                 | $U_0/U$ : 300 /500 V |
| <b>Nennspannung Gleichstrom DC</b>  | $U_0/U$ : 0 /0       |
| <b>Prüfspannung</b>                 | 2000 V               |
| <b>Biegeradius bew. (xD)</b>        | 7.5                  |
| <b>Biegeradius fest (xD)</b>        | 7.5                  |
| <b>Betriebstemperatur fest</b>      | -40 °C bis 70 °C     |
| <b>Betriebstemperatur beweglich</b> | -40 °C bis 70 °C     |

### Application

These data control cables are used for flexible use with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. LiHCH is well suited for use in areas subject to signal interference. The high level of screening reduces substantially the effects of electrical disturbances from parallel running wiring etc. The copper screening is also often used as an "earth". The twisted pairs conform favourable cross-talk attenuation values.

### Standards

IEC 60332-1-2, IEC 60332-3-24 (Cat. C)  
IEC 61034-2, IEC 60754-2, IEC 60754-1

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

### Construction

|                                  |  |
|----------------------------------|--|
| <b>Inner Conductor</b>           | Stranded electrolytic copper wire Class5 |
| <b>Core Insulation</b>           | Halogen Free polymer                     |
| <b>Core Color</b>                | DIN 47100                                |
| <b>Stranding Elements</b>        | in Lagen                                 |
| <b>Inner Sheath Material</b>     | PE Folie                                 |
| <b>Overall Shielding</b>         | Tinned copper braiding                   |
| <b>Outer Insulation Material</b> | Halogen Free polymer                     |

### Technical Data

|                                     |                      |
|-------------------------------------|----------------------|
| <b>Nominal Voltage</b>              | $U_0/U$ : 300 /500 V |
| <b>Nominal Voltage DC</b>           | $U_0/U$ : 0 /0       |
| <b>Test Voltage</b>                 | 2000 V               |
| <b>Bending Radius moved (xD)</b>    | 7.5                  |
| <b>Bending Radius fixed (xD)</b>    | 7.5                  |
| <b>Operating Temperature solid</b>  | -40 °C to 70 °C      |
| <b>Operating Temperature moving</b> | -40 °C to 70 °C      |

| Art. Nr.<br>Prod. Nr. | Abmessung<br>Dimensions | Farbe<br>Color | Gewicht (kg/km) ca.<br>Weight (kg/km) approx. | Außen-Durchmesser (mm) ca.<br>Outer-Diameter (mm) approx. |
|-----------------------|-------------------------|----------------|---|---|
| 01919003              | 2x2 x 0,14              | grau - grey    | 38,0  | 5,5   |
| 01919011              | 2x2 x 0,25              | grau - grey    | 45,0  | 6,0   |
| 01919018              | 2x2 x 0,34              | grau - grey    | 69,0  | 7,3   |
| 01919001              | 2x2 x 0,5               | grau - grey    | 68,0  | 7,8   |
| 01919026              | 2x2 x 0,75              | grau - grey    | 105,0   | 9,0   |
| 01919050              | 2x2 x 1                 | grau - grey    | 142,0   | 10,5  |
| 01919004              | 3x2 x 0,14              | grau - grey    | 48,0  | 6,4   |
| 01919002              | 3x2 x 0,25              | grau - grey    | 66,0  | 7,0   |
| 01919024              | 3x2 x 0,5               | grau - grey    | 109,0   | 9,1   |
| 01919027              | 3x2 x 0,75              | grau - grey    | 137,0   | 10,1  |
| 01919052              | 3x2 x 1                 | grau - grey    | 173,8   | 10,6  |
| 01919005              | 4x2 x 0,14              | grau - grey    | 67,0  | 7,4   |
| 01919012              | 4x2 x 0,25              | grau - grey    | 83,0  | 8,0   |
| 01919020              | 4x2 x 0,34              | grau - grey    | 111,0   | 9,7   |
| 01919031              | 4x2 x 0,5               | grau - grey    | 134,0   | 10,3  |
| 01919028              | 4x2 x 0,75              | grau - grey    | 166,0   | 11,5  |
| 01919038              | 5x2 x 0,14              | grau - grey    | 76,0  | 7,2   |
| 01919035              | 5x2 x 0,5               | grau - grey    | 150,0   | 10,8  |
| 01919006              | 6x2 x 0,14              | grau - grey    | 86,0  | 8,1   |
| 01919013              | 6x2 x 0,25              | grau - grey    | 115,0   | 9,2   |
| 01919029              | 6x2 x 0,5               | grau - grey    | 176,0   | 11,4  |
| 01919034              | 6x2 x 0,75              | grau - grey    | 236,0   | 13,4  |
| 01919014              | 7x2 x 0,25              | grau - grey    | 119,0   | 9,5   |
| 01919043              | 8x2 x 0,25              | grau - grey    | 129,0   | 9,8   |

| Art. Nr.<br>Prod. Nr. | Abmessung<br>Dimensions | Farbe<br>Color | Gewicht (kg/km) ca.<br>Weight (kg/km) approx. | Außen-Durchmesser (mm) ca.<br>Outer-Diameter (mm) approx. |
|-----------------------|-------------------------|----------------|---|---|
| 01919055              | 8x2 x 0,5               | grau - grey    | 187,0   | 12,2  |
| 01919045              | 8x2 x 0,75              | grau - grey    | 332,0   | 16,0  |
| 01919033              | 10x2 x 0,25             | grau - grey    | 153,0   | 10,9  |
| 01919032              | 10x2 x 0,5              | grau - grey    | 280,0   | 14,3  |
| 01919048              | 10x2 x 0,75             | grau - grey    | 363,0   | 15,0  |
| 01919030              | 12x2 x 0,5              | grau - grey    | 330,0   | 16,0  |
| 01919049              | 15x2 x 0,75             | grau - grey    | 500,0   | 18,3  |
| 01919041              | 16x2 x 0,25             | grau - grey    | 213,0   | 12,0  |
| 01919054              | 16x2 x 0,5              | grau - grey    | 480,0   | 17,0  |
| 01919057              | 18x2 x 0,5              | grau - grey    | 450,0   | 18,3  |
| 01919039              | 24x2 x 0,5              | grau - grey    | 720,0   | 18,0  |