

## HSLH-JZ



### Application

Halogen-free, flame retardant cables are used as measuring and control cable in machine tools, conveyor belts, production lines as well as in plant installations, in air-conditioning and steel production works. For fixed installation or flexible application, directed without forcing by casual, not constantly recurring free movements and without tensile stress, for medium mechanical strain. This cable is suitable for the application in dry and damp environments. Not suitable for imbedding in solidified or compressed concrete.

### Standards

adapted to DIN VDE 0281 part 14 and DIN VDE 0281 part 13

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

### Construction

|                                  |   |
|----------------------------------|---|
| <b>Inner Conductor</b>           | fine-stranded bare copper acc. DIN VDE 0295 cl. 5 / IEC 60228 cl. 5   |
| <b>Core Insulation</b>           | halogen-free special compound   |
| <b>Core Color</b>                | black cores with continuous white numbering according to DIN VDE 0293<br>green-yellow earth core in the outer layer (3 cores and above) |
| <b>Stranding Elements</b>        | cores stranded in layers with optimal layer-length  |
| <b>Outer Insulation Material</b> | halogen-free spezial compound   |

### Technical Data

|                                     |                      |
|-------------------------------------|----------------------|
| <b>Nominal Voltage</b>              | $U_0/U$ : 300 /500 V |
| <b>Nominal Volatage DC</b>          | $U_0/U$ : 0 /0       |
| <b>Test Voltage</b>                 | 2000 V               |
| <b>Bending Radius fixed (xD)</b>    | 10                   |
| <b>Operating Temperature solid</b>  | -40 °C bis 70 °C     |
| <b>Operating Temperature moving</b> | -5 °C bis 70 °C      |
| <b>Short Circuit Temperature</b>    | 160 °C               |
| <b>Short Circuit Duration</b>       | 5 sek.               |
| <b>Fire Classes</b>                 | Eca, Cca, B2ca       |

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| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--|--|
| 01917107               | JZ               | 3 x 0,5                  | grey - grey    | 43,0   | 5,3  |
| 01917012               | JZ               | 3 x 0,75                 | grey - grey    | 52,0   | 5,6  |
| 01917175               | JB               | 3 x 0,75                 | grey - grey    | 52,0   | 5,6  |
| 01917016               | JZ               | 3 x 1                    | grey - grey    | 60,0   | 5,9  |
| 01917001               | JZ               | 3 x 1,5                  | grey - grey    | 82,0   | 6,8  |
| 01917151               | JB               | 3 x 1,5                  | grey - grey    | 82,0   | 6,8  |
| 01917022               | JZ               | 3 x 2,5                  | grey - grey    | 127,0  | 8,3  |
| 01917176               | JB               | 3 x 2,5                  | grey - grey    | 127,0  | 8,3  |
| 01917042               | JZ               | 3 x 4                    | grey - grey    | 189,0  | 9,8  |
| 01917040               | JZ               | 3 x 6                    | grey - grey    | 272,0  | 11,7   |
| 01917053               | JZ               | 3 x 10                   | grey - grey    | 550,0  | 15,0   |
| 01917058               | JZ               | 3 x 16                   | grey - grey    | 830,0  | 17,6   |
| 01917142               | JZ               | 3 x 25                   | grey - grey    | 1.190,0  | 22,5   |
| 01917143               | JZ               | 3 x 35                   | grey - grey    | 1.590,0  | 25,2   |
| 01917147               | JZ               | 4 x 0,5                  | grey - grey    | 49,0   | 5,6  |
| 01917009               | JZ               | 4 x 0,75                 | grey - grey    | 66,0   | 6,3  |
| 01917025               | JZ               | 4 x 1                    | grey - grey    | 78,0   | 6,7  |
| 01917168               | JB               | 4 x 1                    | grey - grey    | 78,0   | 6,7  |
| 01917021               | JZ               | 4 x 1,5                  | grey - grey    | 98,0   | 7,4  |
| 01917150               | JB               | 4 x 1,5                  | grey - grey    | 98,0   | 7,4  |
| 01917028               | JZ               | 4 x 2,5                  | grey - grey    | 161,0  | 9,2  |
| 01917043               | JZ               | 4 x 4                    | grey - grey    | 239,0  | 10,9   |
| 01917041               | JZ               | 4 x 6                    | grey - grey    | 338,0  | 12,7   |
| 01917054               | JZ               | 4 x 10                   | grey - grey    | 575,0  | 16,5   |

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|------------------------|------------------|--------------------------|----------------|--|--|
| 01917059               | JZ               | 4 x 16                   | grey - grey    | 921,0  | 20,1   |
| 01917092               | JZ               | 4 x 25                   | grey - grey    | 1.406,0  | 25,0   |
| 01917094               | JZ               | 4 x 35                   | grey - grey    | 1.914,0  | 28,6   |
| 01917096               | JZ               | 4 x 50                   | grey - grey    | 3.087,0  | 34,2   |
| 01917100               | JB               | 4 x 50                   | grey - grey    | 3.087,0  | 34,2   |
| 01917097               | JZ               | 4 x 70                   | grey - grey    | 4.295,0  | 40,3   |
| 01917101               | JB               | 4 x 70                   | grey - grey    | 4.295,0  | 40,3   |
| 01917098               | JZ               | 4 x 95                   | grey - grey    | 5.817,0  | 45,8   |
| 01917099               | JZ               | 4 x 120                  | grey - grey    | 7.350,0  | 51,4   |
| 01917103               | JB               | 4 x 120                  | grey - grey    | 7.350,0  | 51,4   |
| 01917108               | JZ               | 5 x 0,5                  | grey - grey    | 63,0   | 6,3  |
| 01917010               | JZ               | 5 x 0,75                 | grey - grey    | 78,0   | 6,8  |
| 01917024               | JZ               | 5 x 1                    | grey - grey    | 95,0   | 7,3  |
| 01917003               | JZ               | 5 x 1,5                  | grey - grey    | 126,0  | 8,3  |
| 01917023               | JZ               | 5 x 2,5                  | grey - grey    | 194,0  | 10,0   |
| 01917044               | JZ               | 5 x 4                    | grey - grey    | 299,0  | 12,3   |
| 01917034               | JZ               | 5 x 6                    | grey - grey    | 419,0  | 14,3   |
| 01917055               | JZ               | 5 x 10                   | grey - grey    | 766,0  | 18,7   |
| 01917035               | JZ               | 5 x 16                   | grey - grey    | 1.090,0  | 22,2   |
| 01917093               | JZ               | 5 x 25                   | grey - grey    | 2.099,0  | 30,8   |
| 01917095               | JZ               | 5 x 35                   | grey - grey    | 2.765,0  | 31,7   |
| 01917133               | JZ               | 5 x 50                   | grey - grey    | 3.980,0  | 38,3   |
| 01917135               | JZ               | 5 x 70                   | grey - grey    | 5.501,0  | 45,3   |
| 01917137               | JZ               | 5 x 95                   | grey - grey    | 6.972,0  | 50,7   |

| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--|--|
| 01917167               | JZ               | 6 x 0,75                 | grey - grey    | 93,0   | 7,3  |
| 01917172               | JZ               | 6 x 1                    | grey - grey    | 120,0  | 8,0  |
| 01917066               | JZ               | 7 x 0,5                  | grey - grey    | 78,0   | 6,9  |
| 01917011               | JZ               | 7 x 0,75                 | grey - grey    | 97,0   | 7,4  |
| 01917017               | JZ               | 7 x 1                    | grey - grey    | 119,0  | 8,0  |
| 01917014               | JZ               | 7 x 1,5                  | grey - grey    | 161,0  | 9,2  |
| 01917015               | JZ               | 7 x 2,5                  | grey - grey    | 254,0  | 11,2   |
| 01917033               | JZ               | 7 x 4                    | grey - grey    | 384,0  | 13,4   |
| 01917051               | JZ               | 7 x 6                    | grey - grey    | 544,0  | 15,7   |
| 01917056               | JZ               | 7 x 10                   | grey - grey    | 1.124,0  | 20,6   |
| 01917080               | JZ               | 8 x 1                    | grey - grey    | 184,0  | 9,4  |
| 01917084               | JZ               | 8 x 1,5                  | grey - grey    | 224,0  | 10,6   |
| 01917087               | JZ               | 8 x 2,5                  | grey - grey    | 370,0  | 13,2   |
| 01917068               | JZ               | 10 x 0,5                 | grey - grey    | 121,0  | 8,8  |
| 01917075               | JZ               | 10 x 0,75                | grey - grey    | 172,0  | 9,6  |
| 01917081               | JZ               | 10 x 1                   | grey - grey    | 224,0  | 10,4   |
| 01917085               | JZ               | 10 x 1,5                 | grey - grey    | 270,0  | 11,7   |
| 01917088               | JZ               | 10 x 2,5                 | grey - grey    | 451,0  | 14,0   |
| 01917069               | JZ               | 12 x 0,5                 | grey - grey    | 125,0  | 8,8  |
| 01917013               | JZ               | 12 x 0,75                | grey - grey    | 165,0  | 9,8  |
| 01917005               | JZ               | 12 x 1                   | grey - grey    | 203,0  | 10,6   |
| 01917002               | JZ               | 12 x 1,5                 | grey - grey    | 272,0  | 12,1   |
| 01917029               | JZ               | 12 x 2,5                 | grey - grey    | 438,0  | 15,0   |
| 01917047               | JZ               | 12 x 4                   | grey - grey    | 790,0  | 18,3   |

| Prod. Nr.<br>Prod. Nr. | Option<br>Option | Dimensions<br>Dimensions | Color<br>Color | Weight (kg/km) approx.<br>Weight (kg/km) approx. | Outer-Diameter (mm) approx.<br>Outer-Diameter (mm) approx. |
|------------------------|------------------|--------------------------|----------------|--|--|
| 01917076               | JZ               | 16 x 0,75                | grey - grey    | 241,0  | 11,5   |
| 01917032               | JZ               | 16 x 1                   | grey - grey    | 314,0  | 12,0   |
| 01917036               | JZ               | 16 x 1,5                 | grey - grey    | 392,0  | 13,6   |
| 01917071               | JZ               | 18 x 0,5                 | grey - grey    | 193,0  | 11,0   |
| 01917019               | JZ               | 18 x 0,75                | grey - grey    | 245,0  | 12,0   |
| 01917006               | JZ               | 18 x 1                   | grey - grey    | 295,0  | 12,9   |
| 01917026               | JZ               | 18 x 1,5                 | grey - grey    | 396,0  | 14,5   |
| 01917018               | JZ               | 18 x 2,5                 | grey - grey    | 635,0  | 18,0   |
| 01917073               | JZ               | 25 x 0,5                 | grey - grey    | 264,0  | 12,9   |
| 01917020               | JZ               | 25 x 0,75                | grey - grey    | 341,0  | 14,0   |
| 01917007               | JZ               | 25 x 1                   | grey - grey    | 410,0  | 15,1   |
| 01917027               | JZ               | 25 x 1,5                 | grey - grey    | 566,0  | 17,4   |
| 01917030               | JZ               | 25 x 2,5                 | grey - grey    | 947,0  | 19,9   |
| 01917106               | JZ               | 30 x 0,5                 | grey - grey    | 324,0  | 13,5   |
| 01917132               | JZ               | 30 x 2,5                 | grey - grey    | 1.280,0  | 23,7   |
| 01917038               | JZ               | 34 x 0,75                | grey - grey    | 456,0  | 16,5   |
| 01917037               | JZ               | 34 x 1                   | grey - grey    | 670,0  | 17,4   |
| 01917061               | JZ               | 34 x 1,5                 | grey - grey    | 729,0  | 19,7   |
| 01917111               | JZ               | 41 x 0,5                 | grey - grey    | 417,0  | 15,8   |
| 01917140               | JZ               | 41 x 0,75                | grey - grey    | 611,0  | 17,6   |
| 01917039               | JZ               | 41 x 1                   | grey - grey    | 665,0  | 19,2   |
| 01917112               | JZ               | 42 x 0,5                 | grey - grey    | 454,0  | 15,8   |
| 01917104               | JZ               | 42 x 0,75                | grey - grey    | 621,0  | 17,6   |
| 01917105               | JZ               | 42 x 1                   | grey - grey    | 661,0  | 19,0   |

| Prod. Nr. | Option | Dimensions | Color       | Weight (kg/km) approx. | Outer-Diameter (mm) approx. |
|-----------|--------|------------|-------------|------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color       | Weight (kg/km) approx. | Outer-Diameter (mm) approx. |
| 01917177  |        | 48 x 1,5   | grey - grey | 1.007,0                | 21,6                        |
| 01917120  | JZ     | 50 x 0,75  | grey - grey | 742,0                  | 19,8                        |