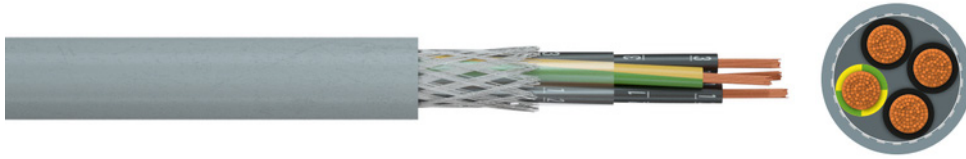


# Screened FRNC control cable HSLCH-JZ/-OZ/-JB



**Application:** LSOH control cable for multiple purposes in control and measurement circuits with specific EMC (electromagnetic compatibility) requirements. For indoor use only. The cable is to a large extent resistant to oil and grease.

## Construction and technical data:

|  |  |
|--|--|
| <b>CPR-classification according to EN 50575:</b>     | Dca                                      |
| <b>Conductor material:</b>                           | copper, bare                             |
| <b>Conductor construction:</b>                       | Class 5 = flexible                       |
| <b>Insulation:</b>                                   | FRNC-compound HI2                        |
| <b>Core wrapping:</b>                                | plastic foil                             |
| <b>Screen:</b>                                       | tinned copper braid                      |
| <b>Screen coverage:</b>                              | 70 %                                     |
| <b>Sheathing material:</b>                           | FRNC-compound HM2                        |
| <b>Colour of outer sheath:</b>                       | grey RAL 7001                            |
| <b>Flame-retardant:</b>                              | VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C) |
| <b>Smoke density:</b>                                | DIN EN 61034/IEC 61034                   |
| <b>Halogen-free:</b>                                 | DIN EN 50267/IEC 60754                   |
| <b>Oil-resistant:</b>                                | yes                                      |
| <b>Max. temperature at conductor, °C:</b>            | 70 °C                                    |
| <b>Permitted outer cable temperature, fixed, °C:</b> | -30 - +70 °C                             |
| <b>Permitted outer cable temperature, moved, °C:</b> | -5 - +70 °C                              |
| <b>Bending radius, fixed installation:</b>           | 5 x Ø                                    |
| <b>Bending radius, moving application:</b>           | 10 x Ø                                   |



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

**HSLCH-JZ****Nominal voltage U<sub>o</sub>:** 300 V**Nominal voltage U:** 500 V**Test voltage:** 2 kV**Protective conductor:** yes**Core identification:** green-yellow + numbers

| part no. | part name | RI [Ohm/km] | I <sub>bl</sub> [A] | Ø [mm] | Cu    | G [kg] |
|----------|-----------|-------------|---------------------|--------|-------|--------|
| 032741   | 03X0.5    | 39          | 6                   | 6.2    | 50    | 55     |
| 032742   | 04X0.5    | 39          | 6                   | 6.6    | 55    | 66     |
| 032743   | 05X0.5    | 39          | 6                   | 7.2    | 66    | 80     |
| 032744   | 07X0.5    | 39          | 6                   | 8.6    | 80.5  | 108    |
| 036161   | 10X0.5    | 39          | 6                   | 9.3    | 94.3  | 8453   |
| 032745   | 12X0.5    | 39          | 6                   | 9.9    | 139   | 162    |
| 032746   | 18X0.5    | 39          | 6                   | 11.9   | 156.2 | 227    |
| 032747   | 25X0.5    | 39          | 6                   | 13.7   | 250   | 317    |
| 032749   | 03X0.75   | 26          | 12                  | 6.7    | 58    | 70     |
| 032750   | 04X0.75   | 26          | 12                  | 7.5    | 64    | 80     |
| 032751   | 05X0.75   | 26          | 12                  | 8.1    | 77.4  | 100    |
| 032752   | 07X0.75   | 26          | 12                  | 9      | 102   | 133    |
| 036162   | 10X0.75   | 26          | 12                  | 10.3   | 140   | 164    |
| 032753   | 12X0.75   | 26          | 12                  | 11.3   | 177   | 203    |
| 032159   | 18X0.75   | 26          | 12                  | 13.5   | 245   | 284    |
| 032160   | 25X0.75   | 26          | 12                  | 15.8   | 276   | 380    |
| 032755   | 03X1      | 19.5        | 15                  | 6.9    | 65.3  | 80     |
| 032756   | 04X1      | 19.5        | 15                  | 7.5    | 78.1  | 98     |
| 032757   | 05X1      | 19.5        | 15                  | 8.5    | 91    | 121    |
| 032758   | 07X1      | 19.5        | 15                  | 9.5    | 117   | 160    |
| 036163   | 10X1      | 19.5        | 12                  | 10.9   | 156   | 8453   |
| 032759   | 12X1      | 19.5        | 15                  | 11.7   | 188   | 245    |
| 032760   | 18X1      | 19.5        | 15                  | 13.9   | 286   | 376    |
| 032761   | 25X1      | 19.5        | 15                  | 16.4   | 389   | 502    |
| 031889   | 03X1.5    | 13.3        | 18                  | 7.5    | 77    | 119    |
| 031867   | 04X1.5    | 13.3        | 18                  | 8.2    | 96.2  | 125    |
| 031860   | 05X1.5    | 13.3        | 18                  | 8.9    | 125   | 182    |
| 031890   | 07X1.5    | 13.3        | 18                  | 10.5   | 159   | 232    |
| 036164   | 10X1.5    | 13.3        | 18                  | 12.1   | 216.3 | 298    |
| 031891   | 12X1.5    | 13.3        | 18                  | 13.2   | 254.5 | 360    |
| 031892   | 18X1.5    | 13.3        | 18                  | 15.6   | 367.7 | 507    |
| 031893   | 25X1.5    | 13.3        | 18                  | 18.2   | 492.4 | 694    |
| 032763   | 03X2.5    | 7.98        | 26                  | 9.3    | 149   | 160    |
| 031819   | 04X2.5    | 7.98        | 26                  | 10     | 174.2 | 194    |
| 031852   | 05X2.5    | 7.98        | 26                  | 11.5   | 200.8 | 386    |
| 031854   | 07X2.5    | 7.98        | 26                  | 13.8   | 288   | 498    |
| 036165   | 10X2.5    | 7.98        | 26                  | 15     | 365.9 | 8453   |
| 031973   | 12X2.5    | 7.98        | 26                  | 17     | 441   | 796    |
| 037773   | 18X2.5    | 7.98        | 26                  | 19.3   | 540   | 710    |
| 032765   | 03X4      | 4.95        | 34                  | 10.7   | 178.1 | 249    |
| 031843   | 04X4      | 4.95        | 34                  | 11.9   | 248   | 288    |
| 032161   | 05X4      | 4.95        | 34                  | 13.1   | 328   | 337    |
| 032766   | 07X4      | 4.95        | 34                  | 15.1   | 388   | 488    |
| 032768   | 03X6      | 3.3         | 44                  | 12.5   | 280   | 347    |
| 031856   | 04X6      | 3.3         | 44                  | 14.2   | 362   | 399    |
| 031853   | 05X6      | 3.3         | 44                  | 16     | 453   | 770    |
| 032769   | 07X6      | 3.3         | 44                  | 19.2   | 542   | 670    |

| part no. | part name | RI [Ohm/km] | I <sub>bl</sub> [A] | Ø [mm] | Cu   | G [kg] |
|----------|-----------|-------------|---------------------|--------|------|--------|
| 032771   | 03X10     | 1.91        | 61                  | 15.9   | 385  | 501    |
| 031820   | 04X10     | 1.91        | 61                  | 17.8   | 558  | 698    |
| 032772   | 05X10     | 1.91        | 61                  | 19.6   | 640  | 828    |
| 032773   | 07X10     | 1.91        | 61                  | 21.6   | 850  | 1254   |
| 031857   | 04X16     | 1.21        | 82                  | 20.8   | 910  | 987    |
| 032774   | 05X16     | 1.21        | 82                  | 22.9   | 1051 | 1207   |
| 032775   | 07X16     | 1.21        | 82                  | 25.2   | 1470 | 1816   |
| 032776   | 03X25     | 0.78        | 108                 | 24.8   | 900  | 1214   |
| 031858   | 04X25     | 0.78        | 108                 | 26.2   | 1289 | 1592   |
| 032777   | 05X25     | 0.78        | 108                 | 29.4   | 1486 | 2002   |
| 032778   | 03X35     | 0.554       | 135                 | 27.9   | 1130 | 1622   |
| 032040   | 04X35     | 0.554       | 135                 | 33.5   | 1690 | 2380   |
| 032779   | 05X35     | 0.554       | 135                 | 33.8   | 2015 | 2664   |
| 032780   | 03X50     | 0.386       | 168                 | 35.7   | 1766 | 2471   |
| 032129   | 04X50     | 0.386       | 168                 | 39.2   | 2325 | 3003   |
| 032781   | 05X50     | 0.386       | 168                 | 43.3   | 2781 | 3882   |
| 032782   | 03X70     | 0.272       | 207                 | 41.4   | 2218 | 3840   |
| 032656   | 04X70     | 0.272       | 207                 | 45.3   | 3089 | 4939   |
| 032783   | 05X70     | 0.272       | 207                 | 49.6   | 3696 | 6572   |
| 032784   | 03X95     | 0.206       | 250                 | 47.7   | 3010 | 5651   |
| 032657   | 04X95     | 0.206       | 250                 | 52.4   | 4013 | 6690   |
| 032785   | 05X95     | 0.206       | 250                 | 57.5   | 5016 | 8370   |
| 032786   | 03X120    | 0.161       | 292                 | 51     | 3802 | 6342   |
| 032787   | 04X120    | 0.161       | 292                 | 56.1   | 5067 | 8453   |

#### HSLCH-OZ

|                                       |         |
|---------------------------------------|---------|
| <b>Nominal voltage U<sub>o</sub>:</b> | 300 V   |
| <b>Nominal voltage U:</b>             | 500 V   |
| <b>Test voltage:</b>                  | 2 kV    |
| <b>Protective conductor:</b>          | no      |
| <b>Core identification:</b>           | numbers |

| part no. | part name | RI [Ohm/km] | I <sub>bl</sub> [A] | Ø [mm] | Cu    | G [kg] |
|----------|-----------|-------------|---------------------|--------|-------|--------|
| 032740   | 02X0.5    | 39          | 6                   | 5.8    | 35    | 47     |
| 032748   | 02X0.75   | 26          | 12                  | 6.4    | 45    | 58     |
| 032754   | 02X1      | 19.5        | 15                  | 6.6    | 50    | 64     |
| 031888   | 02X1.5    | 13.3        | 18                  | 7.9    | 63.3  | 97     |
| 032762   | 02X2.5    | 7.98        | 26                  | 8.5    | 98    | 132    |
| 032764   | 02X4      | 4.95        | 34                  | 10     | 163   | 209    |
| 032767   | 02X6      | 3.3         | 44                  | 11.9   | 200   | 278    |
| 032770   | 02X10     | 1.91        | 61                  | 14.9   | 328   | 434    |
| 037763   | 05X1.5    | 13.3        | 18                  | 8.9    | 125   | 182    |
| 037764   | 07X1.5    | 13.3        | 18                  | 10.5   | 159   | 232    |
| 037765   | 12X1.5    | 13.3        | 18                  | 13.2   | 254.5 | 360    |
| 037766   | 25X1.5    | 13.3        | 18                  | 18.2   | 492.4 | 694    |
| 037767   | 12X2.5    | 7.98        | 26                  | 17     | 441   | 796    |
| 037768   | 25X2.5    | 7.98        | 26                  | 28.7   | 790   | 980    |

|                 |                         |
|-----------------|-------------------------|
| RI              | Conductor resistance    |
| I <sub>bl</sub> | Ampacity in air (30 °C) |
| Ø               | outer diameter approx.  |
| Cu              | Copper weight (GER)     |
| G               | net weight per 1000     |