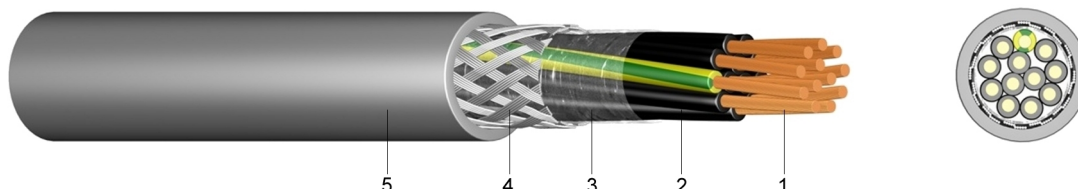


## HSLCH FRNC Halogen-Free Control Cable with EMV-Optimised Braided Screen and Improved Fire Behaviour - FRNC

### Application:

For installations in dry, humid and wet locations but not outdoors. These cables are used for fix or for flexible applications - but not with high tensile load and for forced bending. Suitable as a signal and impulse cable in the control, measuring and signal technology. The copper braiding optimises protection against external interferences, like electromagnetic fields and stray frequencies.



### Construction:

- 1 ..... fine-stranded bare copper
- 2 ..... core insulation of halogen-free, cross-linked polyolefin copolymer
- 3 ..... wrapped in a plastic foil
- 4 ..... screen of tinned copper wire braiding
- 5 ..... outer sheath of halogen-free, cross-linked polyolefin copolymer, grey

### Standards:

adapted to DIN EN 50266-2-4 and 50267-2-2  
 DIN EN 60228 class 5 (construction)  
 core identification JZ: 1 core green/yellow, other cores black with figures  
 core identification OZ: every core black with figures

### Technical data:

|                                   |                    |   |
|-----------------------------------|--------------------|---|
| Nominal voltage U <sub>0</sub> /U | [V]                | 300 / 500 Volt                                  |
| Test voltage                      | [V] <sub>AC</sub>  | 2000  |
| Temperature range                 | in motion<br>fixed | -5°C till +70°C<br>-30°C till +70°C             |
| Operating temperature             | short circuit      | 150   |
| Short circuit time                | max.               | 5   |
| Bending radius                    | in motion          | 15  |
| Flammability                      | standard           | EN 50266-2-4<br>EN 60332-1<br>IEC 60332-3 Kat.C |

| Number of cores and nominal cross section mm <sup>2</sup> | Copper figure | Cond. construction (appr. value) | Overall diameter | Weight      |
|---|---------------|----------------------------------|------------------|-------------|
|   | kg/km         | mm                               | appr. mm         | appr. kg/km |
| 2 x 0,75  | 39,4          | 24 x 0,21                        | 6,2              | 55          |
| 3 x 0,75  | 49,0          | 24 x 0,21                        | 6,5              | 70          |
| 4 x 0,75  | 58,6          | 24 x 0,21                        | 7,0              | 87          |
| 5 x 0,75  | 69,1          | 24 x 0,21                        | 7,7              | 106         |
| 7 x 0,75  | 85,4          | 24 x 0,21                        | 8,3              | 129         |
| 12 x 0,75   | 132,5         | 24 x 0,21                        | 10,9             | 211         |
| 18 x 0,75   | 202,6         | 24 x 0,21                        | 12,7             | 307         |
| 25 x 0,75   | 268,8         | 24 x 0,21                        | 15,0             | 413         |
| 34 x 0,75   | 319,7         | 24 x 0,21                        | 17,3             | 523         |
| 2 x 1   | 49,0          | 32 x 0,21                        | 6,5              | 79          |
| 3 x 1   | 59,5          | 32 x 0,21                        | 6,8              | 88          |
| 4 x 1   | 71,0          | 32 x 0,21                        | 7,4              | 106         |

| Number of cores<br>and nominal<br>cross section<br>mm <sup>2</sup> | Copper<br>figure | Cond. construction<br>(appr. value) | Overall<br>diameter | Weight         |
|--|------------------|-------------------------------------|---------------------|----------------|
|  | kg/km            | mm                                  | appr. mm            | appr.<br>kg/km |
| 5 x 1  | 84,5             | 32 x 0,21                           | 8,1                 | 124            |
| 7 x 1  | 107,5            | 32 x 0,21                           | 8,8                 | 155            |
| 12 x 1   | 177,6            | 32 x 0,21                           | 12,3                | 232            |
| 18 x 1   | 257,3            | 32 x 0,21                           | 14,7                | 332            |
| 25 x 1   | 342,7            | 32 x 0,21                           | 16,0                | 460            |
| 2 x 1,5  | 62,4             | 30 x 0,26                           | 7,1                 | 91             |
| 3 x 1,5  | 78,7             | 30 x 0,26                           | 7,5                 | 112            |
| 4 x 1,5  | 96,0             | 30 x 0,26                           | 8,5                 | 141            |
| 5 x 1,5  | 114,2            | 30 x 0,26                           | 8,9                 | 161            |
| 7 x 1,5  | 147,8            | 30 x 0,26                           | 9,9                 | 206            |
| 12 x 1,5   | 257,3            | 30 x 0,26                           | 14,7                | 323            |
| 18 x 1,5   | 358,1            | 30 x 0,26                           | 15,5                | 517            |
| 25 x 1,5   | 508,8            | 30 x 0,26                           | 18,1                | 705            |
| 3 x 2,5  | 113,3            | 50 x 0,26                           | 9,0                 | 157            |
| 4 x 2,5  | 141,1            | 50 x 0,26                           | 9,9                 | 201            |
| 5 x 2,5  | 169,0            | 50 x 0,26                           | 11,0                | 248            |
| 7 x 2,5  | 242,9            | 50 x 0,26                           | 13,9                | 306            |
| 12 x 2,5   | 353,3            | 50 x 0,26                           | 15,9                | 499            |
| 4 x 4  | 238,1            | 51 x 0,30                           | 11,7                | 291            |
| 5 x 4  | 234,2            | 51 x 0,30                           | 12,8                | 364            |
| 4 x 6  | 329,3            | 76 x 0,30                           | 13,9                | 437            |
| 7 x 6  | 509,8            | 76 x 0,30                           | 18,2                | 700            |
| 4 x 10   | 574,1            | 77 x 0,40                           | 17,4                | 685            |
| 5 x 10   | 595,2            | 77 x 0,40                           | 19,5                | 824            |
| 4 x 16   | 809,3            | 119 x 0,40                          | 20,6                | 972            |
| 4 x 25   | 1.174,1          | 182 x 0,40                          | 25,3                | 1.443          |