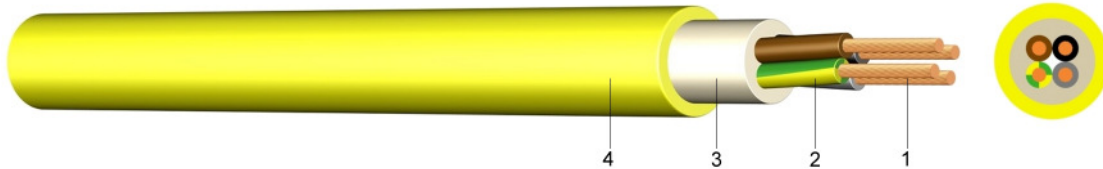


## Rubber Sheathed Cable for High Mechanical Stress

**Application:**

These cables are suitable for extreme mechanical stress in dry and humid locations and outdoor use for connections of heavy equipment. For mines and industrial use.



**Construction:**

- 1 ..... fine-stranded tinned copper
- 2 ..... EPR rubber insulation  
(ethylen-propylen polymer)
- 3 ..... rubber inner sheath
- 4 ..... outer sheath of polychloroprene (CR), yellow, abrasion  
and oil resistant, flame retardant

**According to:**

DIN VDE 0250-812  
DIN EN 60228 class 5 (construction)  
HD 308 S2 (core identification)

**Technical data:**

|                                   |                  |                   |                    |
|-----------------------------------|------------------|-------------------|--------------------|
| Nominal voltage U <sub>0</sub> /U |                  | [V]               | 600 / 1000 Volt    |
| Test voltage                      |                  | [V] <sub>AC</sub> | 4000               |
| Temperature range                 | in motion        |                   | -25 °C till +80 °C |
| Operating temperature             | short circuit    | °C                | 250                |
| Short circuit time                | max.             | [sec]             | 5                  |
| Bending radius                    | one time / fixed | x diameter        | 4                  |
| Bending radius                    | in motion        | x diameter        | 10                 |
| Oil-resistant                     | standard         |                   | EN 60811-2-1       |
| Flammability                      | standard         |                   | EN 60332-1-2       |

| Number of cores and nominal cross section mm <sup>2</sup> | Copper figure kg/km | Cond. construction (appr. value) mm | Overall diameter appr. mm | Weight appr. kg / km |
|---|---------------------|-------------------------------------|---------------------------|----------------------|
| 1 x 25  | 250                 | 200 x 0,41                          | 12,9                      | 350                  |
| 1 x 35  | 350                 | 280 x 0,41                          | 13,6                      | 446                  |
| 1 x 50  | 500                 | 400 x 0,41                          | 16,0                      | 618                  |
| 1 x 70  | 700                 | 356 x 0,51                          | 18,2                      | 838                  |
| 1 x 95  | 950                 | 485 x 0,51                          | 20,7                      | 1.082                |
| 1 x 120   | 1.200               | 614 x 0,51                          | 22,4                      | 1.350                |
| 1 x 150   | 1.500               | 765 x 0,51                          | 24,6                      | 1.660                |
| 1 x 185   | 1.850               | 944 x 0,51                          | 28,3                      | 2.067                |
| 1 x 240   | 2.400               | 1225 x 0,51                         | 30,2                      | 2.621                |
| 3 x 1,5   | 45                  | 30 x 0,26                           | 11,5                      | 184                  |
| 3 x 2,5   | 75                  | 50 x 0,26                           | 12,9                      | 245                  |
| 3 x 70/35   | 2.450               | 356 x 0,51                          | 42,2                      | 3.775                |
| 3 x 95/50   | 3.350               | 485 x 0,51                          | 50,2                      | 5.116                |
| 3 x 120/70  | 4.300               | 614 x 0,50                          | 55,0                      | 6.388                |
| 4 x 1,5   | 60                  | 30 x 0,26                           | 12,2                      | 213                  |
| 4 x 2,5   | 100                 | 50 x 0,26                           | 15,1                      | 328                  |

## Datasheet

Version 1/2009

| Number of cores and nominal cross section mm <sup>2</sup> | Copper figure | Cond. construction (appr. value) mm | Overall diameter appr. mm | Weight appr. kg / km |
|---|---------------|-------------------------------------|---------------------------|----------------------|
|   | kg/km         |                                     |                           |                      |
| 4 x 4   | 160           | 56 x 0,31                           | 16,7                      | 423                  |
| 4 x 6   | 240           | 84 x 0,31                           | 18,1                      | 530                  |
| 4 x 10  | 400           | 80 x 0,41                           | 22,3                      | 832                  |
| 4 x 16  | 640           | 128 x 0,41                          | 26,3                      | 1.198                |
| 4 x 25  | 1.000         | 200 x 0,41                          | 31,5                      | 1.771                |
| 4 x 35  | 1.400         | 280 x 0,41                          | 33,2                      | 2.196                |
| 4 x 50  | 2.000         | 400 x 0,41                          | 40,4                      | 3.160                |
| 4 x 70  | 2.800         | 356 x 0,51                          | 44,8                      | 4.115                |
| 4 x 95  | 3.800         | 485 x 0,51                          | 52,6                      | 5.516                |
| 4 x 120   | 4.800         | 614 x 0,51                          | 57,0                      | 6.815                |
| 5 x 1,5   | 75            | 30 x 0,26                           | 13,1                      | 249                  |
| 5 x 2,5   | 125           | 50x 0,26                            | 16,1                      | 384                  |
| 5 x 4   | 200           | 56 x 0,31                           | 17,9                      | 501                  |
| 5 x 6   | 300           | 84 x 0,31                           | 20,3                      | 672                  |
| 5 x 10  | 500           | 80 x 0,41                           | 24,2                      | 1.001                |
| 5 x 16  | 800           | 128 x 0,41                          | 28,4                      | 1.445                |
| 5 x 25  | 1.250         | 200 x 0,41                          | 34,1                      | 2.140                |
| 5 x 35  | 1.750         | 280 x 0,41                          | 37,4                      | 2.791                |
| 7 x 1,5   | 105           | 30 x 0,26                           | 16,1                      | 370                  |
| 7 x 2,5   | 175           | 50 x 0,26                           | 18,3                      | 504                  |
| 10 x 1,5  | 150           | 30 x 0,26                           | 19,0                      | 490                  |
| 12 x 2,5  | 300           | 50 x 0,26                           | 22,3                      | 733                  |
| 18 x 2,5  | 450           | 50 x 0,26                           | 26,4                      | 1.055                |