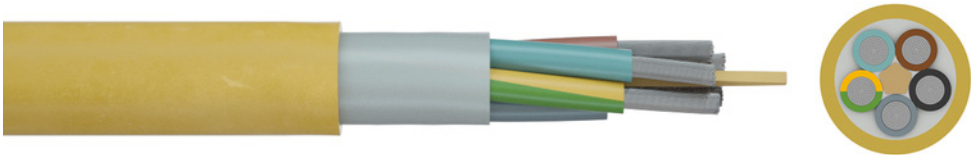


# Rubber cable

## NSSHOEU

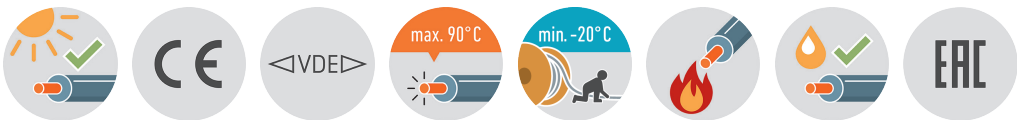


**Application:** Designed to withstand high mechanical stress. For the connection of heavy duty underground mining, industrial and construction equipment, in dry and damp areas and outdoors. The cable is largely flame- and oil-resistant.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:  
CAS 85535-85-9

**Construction and technical data:**

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Standard:                                     | VDE 0250 T. 812                |
| Conductor material:                           | tinned copper                  |
| Conductor construction:                       | Class 5 = flexible             |
| Insulation:                                   | rubber 3GI3                    |
| Sheathing material:                           | rubber 5GM5                    |
| Colour of outer sheath:                       | yellow                         |
| Flame-retardant:                              | VDE 0482-332-1-2/IEC 60332-1-2 |
| UV-resistant:                                 | yes                            |
| Oil-resistant:                                | EN 60811-404                   |
| For outdoor use:                              | yes                            |
| Max. temperature at conductor, °C:            | 90 °C                          |
| Permitted outer cable temperature, fixed, °C: | -40 - +80 °C                   |
| Permitted outer cable temperature, moved, °C: | -25 - +60 °C                   |



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.

bending radius acc. DIN EN 50565-1

| application        | <8 mm | 8-12 mm | 12-20 mm | > 20 mm |
|--------------------|-------|---------|----------|---------|
| fixed installation |       | 3D      |          | 4D      |
| free movement      |       | 5D      |          | 6D      |
| cable entry        |       | 5D      |          | 6D      |

|                       |                                  |
|-----------------------|----------------------------------|
| Nominal voltage Uo:   | 0.6 kV                           |
| Nominal voltage U:    | 1 kV                             |
| Test voltage:         | 3 kV                             |
| Protective conductor: | yes                              |
| Core identification:  | colours acc. to VDE 0293 (HD308) |

| part no. | part name  | RI [Ohm/km] | Ibl [A] | Rbv [mm] | Rbb [mm] | Ø [mm] | Fzv [N] | Cu    | G [kg] |
|----------|------------|-------------|---------|----------|----------|--------|---------|-------|--------|
| 050128   | 03X1.5     | 13.7        | 23      | 50       | 63       | 12.5   | 67      | 43    | 200    |
| 050129   | 03X2.5     | 8.21        | 30      | 53       | 66       | 13.2   | 112     | 72    | 260    |
| 050130   | 03X4       | 5.09        | 41      | 65       | 81       | 16.2   | 180     | 115   | 380    |
| 051843   | 03X6       | 3.39        | 53      | 67       | 82       | 16.8   | 270     | 173   | 447    |
| 052833   | 03X16      | 1.24        | 99      | 102      | 153      | 25.5   | 720     | 461   | 940    |
| 051844   | 03X25      | 0.795       | 162     | 111      | 139      | 27.7   | 1125    | 720   | 27.7   |
| 052234   | 03X240     | 0.0817      | 547     | 306      | 337      | 67.4   | 10800   | 6912  | 9810   |
| 050140   | 03X70/35   | 0.277       | 250     | 178      | 223      | 44.6   | 3150    | 2352  | 4460   |
| 050141   | 03X95/50   | 0.21        | 301     | 212      | 266      | 52     | 4275    | 3216  | 5910   |
| 050212   | 03X120/70  | 0.164       | 352     | 216      | 270      | 57     | 5400    | 4128  | 7300   |
| 050891   | 03X150/70  | 0.132       | 404     | 292      | 366      | 60     | 7800    | 4992  | 7119   |
| 053651   | 03X240/120 | 0.0817      | 547     | 325      | 487      | 81.2   | 12600   | 8064  | 12614  |
| 050131   | 04X1.5     | 13.7        | 23      | 50       | 63       | 12.6   | 90      | 58    | 230    |
| 050132   | 04X2.5     | 8.21        | 30      | 64       | 80       | 15.9   | 150     | 96    | 350    |
| 050133   | 04X4       | 5.09        | 41      | 70       | 88       | 17.5   | 240     | 154   | 450    |
| 050134   | 04X6       | 3.39        | 53      | 76       | 94       | 18.8   | 360     | 230   | 560    |
| 050135   | 04X10      | 1.95        | 74      | 92       | 115      | 23     | 600     | 384   | 860    |
| 050136   | 04X16      | 1.24        | 99      | 110      | 137      | 26     | 960     | 614   | 1350   |
| 050137   | 04X25      | 0.795       | 131     | 138      | 173      | 32     | 1500    | 960   | 2010   |
| 050138   | 04X35      | 0.565       | 162     | 146      | 182      | 34.5   | 2100    | 1344  | 2590   |
| 050139   | 04X50      | 0.393       | 202     | 166      | 208      | 40.5   | 3000    | 1920  | 3660   |
| 050239   | 04X70      | 0.277       | 250     | 186      | 233      | 45     | 4200    | 2688  | 4605   |
| 050234   | 04X95      | 0.21        | 301     | 227      | 284      | 52     | 5700    | 3648  | 6400   |
| 050235   | 04X120     | 0.164       | 352     | 262      | 328      | 58     | 7200    | 4608  | 7705   |
| 050236   | 04X150     | 0.132       | 404     | 293      | 366      | 63     | 9000    | 5760  | 8200   |
| 050468   | 04X185     | 0.108       | 461     | 305      | 381      | 70     | 11100   | 7104  | 10604  |
| 052288   | 04X240     | 0.0817      | 547     | 311      | 389      | 76.4   | 14400   | 9216  | 12234  |
| 050142   | 05X1.5     | 13.7        | 23      | 60       | 76       | 15.1   | 112     | 72    | 255    |
| 050143   | 05X2.5     | 8.21        | 30      | 69       | 86       | 17.2   | 187     | 120   | 385    |
| 050144   | 05X4       | 5.09        | 41      | 78       | 97       | 19.4   | 300     | 192   | 560    |
| 050145   | 05X6       | 3.39        | 53      | 86       | 107      | 21.4   | 450     | 288   | 670    |
| 050146   | 05X10      | 1.95        | 74      | 94       | 118      | 23.5   | 750     | 480   | 1000   |
| 050147   | 05X16      | 1.24        | 99      | 120      | 151      | 30.1   | 1200    | 768   | 1570   |
| 050148   | 05X25      | 0.795       | 131     | 142      | 178      | 35.5   | 1875    | 1200  | 2340   |
| 050237   | 05X35      | 0.565       | 162     | 176      | 221      | 44.1   | 2625    | 1680  | 3400   |
| 051271   | 05X50      | 0.393       | 202     | 192      | 240      | 47.4   | 3750    | 2400  | 3850   |
| 051272   | 05X70      | 0.277       | 250     | 220      | 275      | 54.2   | 5250    | 3360  | 5230   |
| 051151   | 05X95      | 0.21        | 301     | 242      | 303      | 60.6   | 7125    | 4560  | 6730   |
| 051273   | 05X120     | 0.164       | 352     | 260      | 325      | 64.8   | 9000    | 5760  | 8500   |
| 050149   | 07X1.5     | 13.7        | 23      | 68       | 85       | 16.9   | 157     | 101   | 410    |
| 050150   | 07X2.5     | 8.21        | 30      | 78       | 98       | 19.5   | 262     | 168   | 500    |
| 050151   | 10X1.5     | 13.7        | 23      | 82       | 103      | 20.5   | 225     | 144   | 545    |
| 050764   | 11X1.5     | 13.7        | 23      | 88       | 111      | 22.1   | 247     | 158   | 600    |
| 051188   | 12X1.5     | 13.7        | 23      | 80       | 121      | 20.1   | 270     | 173   | 550    |
| 050152   | 12X2.5     | 8.21        | 30      | 86       | 108      | 22.9   | 450     | 288   | 770    |
| 051656   | 14X4       | 5.09        | 41      | 106      | 160      | 26.6   | 840     | 538   | 1140   |
| 051189   | 18X1.5     | 13.7        | 13.7    | 115      | 92       | 23.1   | 405     | 259.2 | 730    |

| part no. | part name | RI [Ohm/km] | Ibl [A] | Rbv [mm] | Rbb [mm] | Ø [mm] | Fzv [N] | Cu  | G [kg] |
|----------|-----------|-------------|---------|----------|----------|--------|---------|-----|--------|
| 050153   | 18X2.5    | 8.21        | 30      | 111      | 139      | 27.8   | 675     | 432 | 1160   |
| 052235   | 21X2.5    | 8.21        | 30      | 118      | 148      | 29.6   | 787     | 504 | 1232   |
| 051379   | 19X1.5    | 13.7        | 23      | 95       | 119      | 23.7   | 427     | 274 | 750    |
| 051380   | 24X1.5    | 13.7        | 23      | 109      | 137      | 27.3   | 540     | 346 | 906    |
| 051190   | 24X2.5    | 8.21        | 30      | 124      | 155      | 30.9   | 900     | 576 | 1356   |

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|                      |                                  |
|----------------------|----------------------------------|
| Nominal voltage Uo:  | 0.6 kV                           |
| Nominal voltage U:   | 1 kV                             |
| Test voltage:        | 3 kV                             |
| Core identification: | colours acc. to VDE 0293 (HD308) |

| part no. | part name | DI [mm] | RI [Ohm/km] | Ibl [A] | Rbv [mm] | Rbb [mm] | Ø [mm] | Fzv [N] | Cu   | G [kg] |
|----------|-----------|---------|-------------|---------|----------|----------|--------|---------|------|--------|
| 050121   | 01X16     | 5.5     | 1.24        | 132     | 46       | 57       | 11.4   | 240     | 154  | 260    |
| 050359   | 01X25     | 6.4     | 0.795       | 176     | 52       | 66       | 13.1   | 375     | 240  | 400    |
| 050190   | 01X35     | 7.5     | 0.565       | 218     | 58       | 73       | 14.5   | 525     | 336  | 500    |
| 050122   | 01X50     | 9       | 0.393       | 276     | 76       | 95       | 19     | 750     | 480  | 680    |
| 050123   | 01X70     | 10.8    | 0.277       | 347     | 80       | 100      | 20     | 1050    | 672  | 900    |
| 050124   | 01X95     | 12.6    | 0.21        | 416     | 89       | 111      | 22.2   | 1425    | 912  | 1150   |
| 050125   | 01X120    | 14.3    | 0.164       | 488     | 96       | 120      | 24     | 1800    | 1152 | 1440   |
| 050410   | 01X150    | 15.9    | 0.132       | 566     | 108      | 136      | 27.1   | 2250    | 1440 | 1750   |
| 050434   | 01X185    | 17.5    | 0.108       | 644     | 121      | 151      | 30.2   | 2775    | 1776 | 2180   |
| 050422   | 01X240    | 20.5    | 0.0817      | 775     | 137      | 171      | 34.2   | 3600    | 2304 | 2790   |
| 050557   | 01X300    | 23.1    | 0.0654      | 898     | 168      | 211      | 42.1   | 4500    | 2880 | 3460   |
| 053299   | 01X400    | 26.2    | 0.0495      |         | 162      | 243      | 40.5   | 6000    | 3840 | 4284   |
| 050227   | 02X1.5    | 1.8     | 13.7        | 23      | 47       | 59       | 11.8   | 45      | 29   | 190    |
| 050738   | 02X2.5    | 2.4     | 8.21        | 30      | 51       | 64       | 12.8   | 75      | 48   | 210    |

|     |                                        |
|-----|----------------------------------------|
| DI  | diameter conductor                     |
| RI  | Conductor resistance                   |
| Ibl | Ampacity in air (30 °C)                |
| Rbv | Bending radius, fixed installation     |
| Rbb | Bending radius, moving application     |
| Ø   | outer diameter approx.                 |
| Fzv | Tensile strength (during installation) |
| Cu  | Copper weight (GER)                    |
| G   | net weight per 1000                    |