

# Power cables 1 kV

Standard: IEC 60502-1



## Design

1. Copper conductor
2. PVC insulation
3. Taped (BD) or extruded (FM) bedding
4. PVC sheath

## Application

Cables are designed for fixed installation, indoors and outdoors, in the ground and in concrete.

Installation of the product should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all times.

## Properties

|   |   |                                   |               |
|---|---|-----------------------------------|---------------|
| Rated voltage U <sub>0</sub> /U                 | 0,6/1 kV  | Self-extinguishing of one cable   | IEC 60332-1-2 |
| Test voltage                                    | 4 (AC) kV   | CPR-Classification                | Eca           |
| Maximal short-circuit conductor temperature     | 160 (≤300 mm <sup>2</sup> ); 140 (>300 mm <sup>2</sup> ) °C | UV stability                      | yes           |
| Maximal operating conductor temperature         | 70 °C   | Packaging                         | drum, coil    |
| Temperature range                               | from -35 up to 70 °C  | Certificate                       | BBJ           |
| Minimal temperature for laying and manipulation | -5 °C   | RoHS                              | yes           |
| Minimal storage temperature                     | -35 °C  | REACH                             | yes           |
| Colour of insulation                            | HD 308 S2   | Declaration of Conformity EU (CE) | yes           |
| Colour of sheath                                | black   |                                   |               |

Technical data

| No. of cores and cross-section<br>mm <sup>2</sup> | Shape of conductor *1 | Specification | Diameter (height) of conductor<br>mm | Thickness - nominal insulation<br>mm | Thickness - nominal sheath<br>mm | Diameter informative<br>mm | Weight informative<br>kg/km | Minimal radius of bend<br>mm | Max. permitted pulling force *6<br>N |
|---|-----------------------|---------------|--------------------------------------|--------------------------------------|----------------------------------|----------------------------|-----------------------------|------------------------------|--------------------------------------|
| 1x1,5   | RE                    | --            | 1,3                                  | 0,8                                  | 1,4                              | 5,8                        | 50                          | 87                           | 75                                   |
| 1x2,5   | RE                    | --            | 1,7                                  | 0,8                                  | 1,4                              | 6,2                        | 62                          | 93                           | 125                                  |
| 1x4   | RE                    | --            | 2,2                                  | 1,0                                  | 1,4                              | 7,0                        | 86                          | 105                          | 200                                  |
| 1x6   | RE                    | --            | 2,7                                  | 1,0                                  | 1,4                              | 7,5                        | 108                         | 113                          | 300                                  |
| 1x10  | RE                    | --            | 3,5                                  | 1,0                                  | 1,4                              | 8,3                        | 152                         | 125                          | 500                                  |
| 1x16  | RE                    | --            | 4,4                                  | 1,0                                  | 1,4                              | 8,7                        | 203                         | 131                          | 800                                  |
| 1x25  | RMV                   | --            | 5,9                                  | 1,2                                  | 1,4                              | 10,6                       | 312                         | 159                          | 1250                                 |
| 1x35  | RMV                   | --            | 7,0                                  | 1,2                                  | 1,4                              | 11,7                       | 409                         | 176                          | 1750                                 |
| 1x50  | RMV                   | --            | 8,2                                  | 1,4                                  | 1,4                              | 13                         | 547                         | 201                          | 2500                                 |
| 1x70  | RMV                   | --            | 10,0                                 | 1,4                                  | 1,4                              | 15                         | 747                         | 228                          | 3500                                 |
| 1x95  | RMV                   | --            | 11,7                                 | 1,6                                  | 1,5                              | 18                         | 1027                        | 263                          | 4750                                 |
| 1x120   | RMV                   | --            | 13,2                                 | 1,6                                  | 1,5                              | 19                         | 1263                        | 285                          | 6000                                 |
| 1x150   | RMV                   | --            | 14,6                                 | 1,8                                  | 1,6                              | 21                         | 1538                        | 315                          | 7500                                 |
| 1x185   | RMV                   | --            | 16,4                                 | 2,0                                  | 1,7                              | 23                         | 1917                        | 351                          | 9250                                 |
| 1x240   | RMV                   | --            | 18,6                                 | 2,2                                  | 1,8                              | 26                         | 2488                        | 393                          | 12000                                |
| 1x300   | RMV                   | --            | 21,1                                 | 2,4                                  | 1,9                              | 29                         | 3104                        | 440                          | 15000                                |
| 1x400   | RMV                   | --            | 24,2                                 | 2,6                                  | 2,0                              | 33                         | 3940                        | 495                          | 20000                                |
| 1x500   | RMV                   | --            | 27,3                                 | 2,8                                  | 2,1                              | 37                         | 5004                        | 551                          | 25000                                |
| 2x1   | RE                    | --            | 1,1                                  | 0,8                                  | 1,8                              | 9,0                        | 109                         | 108                          | 100                                  |
| 2x1,5   | RE                    | --            | 1,3                                  | 0,8                                  | 1,8                              | 9,5                        | 126                         | 114                          | 150                                  |
| 2x2,5   | RE                    | --            | 1,7                                  | 0,8                                  | 1,8                              | 10,2                       | 157                         | 123                          | 250                                  |
| 2x4   | RE                    | --            | 2,2                                  | 1,0                                  | 1,8                              | 12,0                       | 223                         | 144                          | 400                                  |
| 2x6   | RE                    | --            | 2,7                                  | 1,0                                  | 1,8                              | 12,9                       | 279                         | 155                          | 600                                  |
| 2x10  | RE                    | --            | 3,5                                  | 1,0                                  | 1,8                              | 14,5                       | 386                         | 174                          | 1000                                 |
| 3x1   | RE                    | --            | 1,1                                  | 0,8                                  | 1,8                              | 9,4                        | 124                         | 113                          | 150                                  |
| 3x1,5   | RE                    | --            | 1,3                                  | 0,8                                  | 1,8                              | 9,9                        | 146                         | 119                          | 225                                  |
| 3x2,5   | RE                    | --            | 1,7                                  | 0,8                                  | 1,8                              | 10,7                       | 186                         | 129                          | 375                                  |
| 3x4   | RE                    | --            | 2,2                                  | 1,0                                  | 1,8                              | 12,6                       | 268                         | 151                          | 600                                  |
| 3x6   | RE                    | --            | 2,7                                  | 1,0                                  | 1,8                              | 13,6                       | 341                         | 163                          | 900                                  |
| 3x10  | RE                    | --            | 3,5                                  | 1,0                                  | 1,8                              | 15,3                       | 484                         | 184                          | 1500                                 |
| 3x16  | RE                    | FM            | 4,4                                  | 1,0                                  | 1,8                              | 18                         | 735                         | 210                          | 2400                                 |
| 3x25  | RMV                   | FM            | 5,9                                  | 1,2                                  | 1,8                              | 22                         | 1174                        | 265                          | 3750                                 |
| 3x35  | RMV                   | FM            | 7,0                                  | 1,2                                  | 1,8                              | 25                         | 1523                        | 294                          | 5250                                 |
| 3x50  | SM                    | BD            | 6,8                                  | 1,4                                  | 1,8                              | 24                         | 1665                        | 293                          | 7500                                 |
| 3x50  | SM                    | FM            | 6,8                                  | 1,4                                  | 1,8                              | 26                         | 1818                        | 307                          | 7500                                 |
| 3x70  | SM                    | BD            | 8,2                                  | 1,4                                  | 2,0                              | 28                         | 2301                        | 334                          | 10500                                |
| 3x70  | SM                    | FM            | 8,2                                  | 1,4                                  | 2,0                              | 29                         | 2470                        | 348                          | 10500                                |
| 3x95  | SM                    | BD            | 9,6                                  | 1,6                                  | 2,1                              | 32                         | 3129                        | 383                          | 14250                                |
| 3x95  | SM                    | FM            | 9,6                                  | 1,6                                  | 2,1                              | 33                         | 3321                        | 397                          | 14250                                |
| 3x120   | SM                    | BD            | 10,8                                 | 1,6                                  | 2,2                              | 35                         | 3856                        | 416                          | 18000                                |
| 3x120   | SM                    | FM            | 10,8                                 | 1,6                                  | 2,2                              | 36                         | 4107                        | 436                          | 18000                                |

| No. of cores and cross-section | Shape of conductor *1 | Specification | Diameter (height) of conductor mm | Thickness - nominal insulation mm | Thickness - nominal sheath mm | Diameter informative mm | Weight informative kg/km | Minimal radius of bend mm | Max. permitted pulling force *6 N |
|--------------------------------|-----------------------|---------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------|--------------------------|---------------------------|-----------------------------------|
| 3x150                          | SM                    | BD            | 12,2                              | 1,8                               | 2,3                           | 39                      | 4746                     | 466                       | 22500                             |
| 3x150                          | SM                    | FM            | 12,2                              | 1,8                               | 2,3                           | 40                      | 5022                     | 485                       | 22500                             |
| 3x185                          | SM                    | BD            | 13,6                              | 2,0                               | 2,5                           | 43                      | 5908                     | 516                       | 27750                             |
| 3x185                          | SM                    | FM            | 13,6                              | 2,0                               | 2,5                           | 45                      | 6263                     | 540                       | 27750                             |
| 3x240                          | SM                    | BD            | 15,6                              | 2,2                               | 2,7                           | 49                      | 7689                     | 583                       | 36000                             |
| 3x240                          | SM                    | FM            | 15,6                              | 2,2                               | 2,7                           | 51                      | 8085                     | 607                       | 36000                             |
| 4x1,5                          | RE                    | --            | 1,3                               | 0,8                               | 1,8                           | 10,7                    | 173                      | 128                       | 300                               |
| 4x2,5                          | RE                    | --            | 1,7                               | 0,8                               | 1,8                           | 11,6                    | 224                      | 139                       | 500                               |
| 4x4                            | RE                    | --            | 2,2                               | 1,0                               | 1,8                           | 13,7                    | 327                      | 164                       | 800                               |
| 4x6                            | RE                    | --            | 2,7                               | 1,0                               | 1,8                           | 14,9                    | 421                      | 178                       | 1200                              |
| 4x10                           | RE                    | --            | 3,5                               | 1,0                               | 1,8                           | 16,8                    | 605                      | 201                       | 2000                              |
| 4x16                           | RE                    | FM            | 4,4                               | 1,0                               | 1,8                           | 19                      | 912                      | 230                       | 3200                              |
| 4x25                           | RMV                   | FM            | 5,9                               | 1,2                               | 1,8                           | 24                      | 1464                     | 290                       | 5000                              |
| 4x35                           | SM                    | BD            | 6,3                               | 1,2                               | 1,8                           | 23                      | 1647                     | 278                       | 7000                              |
| 4x35                           | SM                    | FM            | 6,3                               | 1,2                               | 1,8                           | 24                      | 1774                     | 288                       | 7000                              |
| 4x50                           | SM                    | BD            | 7,3                               | 1,4                               | 1,9                           | 27                      | 2185                     | 319                       | 10000                             |
| 4x50                           | SM                    | FM            | 7,3                               | 1,4                               | 1,9                           | 28                      | 2361                     | 334                       | 10000                             |
| 4x70                           | SM                    | BD            | 9,0                               | 1,4                               | 2,1                           | 31                      | 3028                     | 370                       | 14000                             |
| 4x70                           | SM                    | FM            | 9,0                               | 1,4                               | 2,1                           | 32                      | 3228                     | 384                       | 14000                             |
| 4x95                           | SM                    | BD            | 10,6                              | 1,6                               | 2,2                           | 36                      | 4137                     | 426                       | 19000                             |
| 4x95                           | SM                    | FM            | 10,6                              | 1,6                               | 2,2                           | 37                      | 4369                     | 440                       | 19000                             |
| 4x120                          | SM                    | BD            | 11,8                              | 1,6                               | 2,4                           | 39                      | 5117                     | 463                       | 24000                             |
| 4x120                          | SM                    | FM            | 11,8                              | 1,6                               | 2,4                           | 40                      | 5415                     | 482                       | 24000                             |
| 4x150                          | SM                    | BD            | 13,4                              | 1,8                               | 2,5                           | 43                      | 6311                     | 520                       | 30000                             |
| 4x150                          | SM                    | FM            | 13,4                              | 1,8                               | 2,5                           | 45                      | 6644                     | 539                       | 30000                             |
| 4x185                          | SM                    | BD            | 15,1                              | 2,0                               | 2,7                           | 48                      | 7852                     | 581                       | 37000                             |
| 4x185                          | SM                    | FM            | 15,1                              | 2,0                               | 2,7                           | 50                      | 8282                     | 605                       | 37000                             |
| 4x240                          | SM                    | BD            | 17,4                              | 2,2                               | 2,9                           | 55                      | 10215                    | 659                       | 48000                             |
| 4x240                          | SM                    | FM            | 17,4                              | 2,2                               | 2,9                           | 57                      | 10699                    | 683                       | 48000                             |
| 5x1,5                          | RE                    | --            | 1,3                               | 0,8                               | 1,8                           | 11,5                    | 202                      | 138                       | 375                               |
| 5x2,5                          | RE                    | --            | 1,7                               | 0,8                               | 1,8                           | 12,5                    | 268                      | 150                       | 625                               |
| 5x4                            | RE                    | --            | 2,2                               | 1,0                               | 1,8                           | 14,9                    | 393                      | 178                       | 1000                              |
| 5x6                            | RE                    | --            | 2,7                               | 1,0                               | 1,8                           | 16,2                    | 512                      | 194                       | 1500                              |
| 5x10                           | RE                    | --            | 3,5                               | 1,0                               | 1,8                           | 18,3                    | 737                      | 220                       | 2500                              |
| 5x16                           | RE                    | FM            | 4,4                               | 1,0                               | 1,8                           | 21                      | 1134                     | 253                       | 4000                              |
| 5x25                           | RMV                   | FM            | 5,9                               | 1,2                               | 1,8                           | 27                      | 1848                     | 320                       | 6250                              |
| 5x35                           | RMV                   | FM            | 7,0                               | 1,2                               | 1,9                           | 30                      | 2447                     | 359                       | 8750                              |
| 5x50                           | SM                    | BD            | 7,9                               | 1,4                               | 2,1                           | 31                      | 2785                     | 374                       | 12500                             |
| 5x50                           | SM                    | FM            | 7,9                               | 1,4                               | 2,1                           | 32                      | 3009                     | 389                       | 12500                             |
| 5x70                           | SM                    | BD            | 9,7                               | 1,4                               | 2,2                           | 36                      | 3841                     | 431                       | 17500                             |
| 5x70                           | SM                    | FM            | 9,7                               | 1,4                               | 2,2                           | 37                      | 4096                     | 445                       | 17500                             |
| 5x95                           | SM                    | BD            | 11,0                              | 1,6                               | 2,4                           | 41                      | 5232                     | 486                       | 23750                             |
| 5x95                           | SM                    | FM            | 11,0                              | 1,6                               | 2,4                           | 42                      | 5520                     | 500                       | 23750                             |

| No. of cores and cross-section | Shape of conductor *1 | Specification | Diameter (height) of conductor mm | Thickness - nominal insulation mm | Thickness - nominal sheath mm | Diameter informative mm | Weight informative kg/km | Minimal radius of bend mm | Max. permitted pulling force *6 N |
|--------------------------------|-----------------------|---------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------|--------------------------|---------------------------|-----------------------------------|
| mm <sup>2</sup>                |                       |               |                                   |                                   |                               |                         |                          |                           |                                   |
| 5x120                          | SM                    | BD            | 12,6                              | 1,6                               | 2,5                           | 45                      | 6466                     | 538                       | 30000                             |
| 5x120                          | SM                    | FM            | 12,6                              | 1,6                               | 2,5                           | 46                      | 6840                     | 557                       | 30000                             |

| No. of cores and cross-section | Shape of conductor *1 | Specification | Max. effective resistance conductor at 20°C | Short circuit current (1s) | Current carrying capacity single cable in air *2 | Current carrying capacity in air - trefoil *3 | Current carrying capacity single cable in ground *4 | Current carrying capacity in ground - trefoil *5 | Inductance mH/km | Inductance - trefoil mH/km |
|--------------------------------|-----------------------|---------------|---|----------------------------|--|---|---|--|------------------|----------------------------|
| mm <sup>2</sup>                |                       |               | Ω/km  | kA                         | A  | A   | A   | A  |                  |                            |
| 1x1,5                          | RE                    | --            | 12,1  | 0,17                       | --   | 20  | --  | 29   | --               | 0,480                      |
| 1x2,5                          | RE                    | --            | 7,41  | 0,29                       | --   | 26  | --  | 38   | --               | 0,443                      |
| 1x4                            | RE                    | --            | 4,61  | 0,46                       | --   | 35  | --  | 49   | --               | 0,422                      |
| 1x6                            | RE                    | --            | 3,08  | 0,69                       | --   | 45  | --  | 61   | --               | 0,395                      |
| 1x10                           | RE                    | --            | 1,83  | 1,15                       | --   | 61  | --  | 82   | --               | 0,363                      |
| 1x16                           | RE                    | --            | 1,15  | 1,84                       | --   | 81  | --  | 107  | --               | 0,337                      |
| 1x25                           | RMV                   | --            | 0,727                                       | 2,87                       | --   | 110   | --  | 138  | --               | 0,316                      |
| 1x35                           | RMV                   | --            | 0,524                                       | 4,02                       | --   | 136   | --  | 167  | --               | 0,300                      |
| 1x50                           | RMV                   | --            | 0,387                                       | 5,74                       | --   | 166   | --  | 197  | --               | 0,294                      |
| 1x70                           | RMV                   | --            | 0,268                                       | 8,04                       | --   | 212   | --  | 243  | --               | 0,279                      |
| 1x95                           | RMV                   | --            | 0,193                                       | 10,91                      | --   | 262   | --  | 290  | --               | 0,275                      |
| 1x120                          | RMV                   | --            | 0,153                                       | 13,78                      | --   | 305   | --  | 330  | --               | 0,270                      |
| 1x150                          | RMV                   | --            | 0,124                                       | 17,23                      | --   | 351   | --  | 371  | --               | 0,266                      |
| 1x185                          | RMV                   | --            | 0,0991                                      | 21,25                      | --   | 408   | --  | 419  | --               | 0,263                      |
| 1x240                          | RMV                   | --            | 0,0754                                      | 27,56                      | --   | 485   | --  | 485  | --               | 0,260                      |
| 1x300                          | RMV                   | --            | 0,0601                                      | 34,45                      | --   | 563   | --  | 547  | --               | 0,256                      |
| 1x400                          | RMV                   | --            | 0,0470                                      | 45,93                      | --   | 652   | --  | 618  | --               | 0,251                      |
| 1x500                          | RMV                   | --            | 0,0366                                      | 57,42                      | --   | 761   | --  | 700  | --               | 0,245                      |
| 2x1                            | RE                    | --            | 18,1  | 0,12                       | 18   | --  | 25  | --   | --               | --                         |
| 2x1,5                          | RE                    | --            | 12,1  | 0,17                       | 22   | --  | 31  | --   | --               | --                         |
| 2x2,5                          | RE                    | --            | 7,41  | 0,29                       | 29   | --  | 41  | --   | --               | --                         |
| 2x4                            | RE                    | --            | 4,61  | 0,46                       | 40   | --  | 54  | --   | --               | --                         |
| 2x6                            | RE                    | --            | 3,08  | 0,69                       | 50   | --  | 68  | --   | --               | --                         |
| 2x10                           | RE                    | --            | 1,83  | 1,15                       | 69   | --  | 91  | --   | --               | --                         |
| 3x1                            | RE                    | --            | 18,1  | 0,12                       | 18   | --  | 25  | --   | 0,368            | --                         |
| 3x1,5                          | RE                    | --            | 12,1  | 0,17                       | 23   | --  | 32  | --   | 0,346            | --                         |
| 3x2,5                          | RE                    | --            | 7,41  | 0,29                       | 25   | --  | 36  | --   | 0,321            | --                         |
| 3x4                            | RE                    | --            | 4,61  | 0,46                       | 40   | --  | 55  | --   | 0,320            | --                         |
| 3x6                            | RE                    | --            | 3,08  | 0,69                       | 51   | --  | 69  | --   | 0,301            | --                         |
| 3x10                           | RE                    | --            | 1,83  | 1,15                       | 70   | --  | 92  | --   | 0,281            | --                         |
| 3x16                           | RE                    | FM            | 1,15  | 1,84                       | 82   | --  | 106   | --   | 0,264            | --                         |
| 3x25                           | RMV                   | FM            | 0,727                                       | 2,87                       | 112  | --  | 139   | --   | 0,258            | --                         |
| 3x35                           | RMV                   | FM            | 0,524                                       | 4,02                       | 138  | --  | 167   | --   | 0,248            | --                         |
| 3x50                           | SM                    | BD            | 0,387                                       | 5,74                       | 162  | --  | 195   | --   | 0,219            | --                         |
| 3x50                           | SM                    | FM            | 0,387                                       | 5,74                       | 161  | --  | 194   | --   | 0,219            | --                         |

| No. of cores and cross-section | Shape of conductor *1 | Specification | Max. effective resistance conductor at 20°C | Short circuit current (1s) | Current carrying capacity single cable in air *2 | Current carrying capacity in air - trefoil *3 | Current carrying capacity single cable in ground *4 | Current carrying capacity in ground - trefoil *5 | Inductance | Inductance - trefoil |
|--------------------------------|-----------------------|---------------|---|----------------------------|--|---|---|--|------------|----------------------|
| mm <sup>2</sup>                |                       |               | Ω/km  | kA                         | A  | A   | A   | A  | mH/km      | mH/km                |
| 3x70                           | SM                    | BD            | 0,268                                       | 8,04                       | 203  | --  | 238   | --   | 0,209      | --                   |
| 3x70                           | SM                    | FM            | 0,268                                       | 8,04                       | 203  | --  | 238   | --   | 0,209      | --                   |
| 3x95                           | SM                    | BD            | 0,193                                       | 10,91                      | 251  | --  | 285   | --   | 0,207      | --                   |
| 3x95                           | SM                    | FM            | 0,193                                       | 10,91                      | 251  | --  | 285   | --   | 0,207      | --                   |
| 3x120                          | SM                    | BD            | 0,153                                       | 13,78                      | 290  | --  | 322   | --   | 0,201      | --                   |
| 3x120                          | SM                    | FM            | 0,153                                       | 13,78                      | 290  | --  | 322   | --   | 0,201      | --                   |
| 3x150                          | SM                    | BD            | 0,124                                       | 17,23                      | 334  | --  | 362   | --   | 0,201      | --                   |
| 3x150                          | SM                    | FM            | 0,124                                       | 17,23                      | 334  | --  | 362   | --   | 0,201      | --                   |
| 3x185                          | SM                    | BD            | 0,0991                                      | 21,25                      | 386  | --  | 408   | --   | 0,200      | --                   |
| 3x185                          | SM                    | FM            | 0,0991                                      | 21,25                      | 455  | --  | 482   | --   | 0,144      | --                   |
| 3x240                          | SM                    | BD            | 0,0754                                      | 27,56                      | 456  | --  | 470   | --   | 0,196      | --                   |
| 3x240                          | SM                    | FM            | 0,0754                                      | 27,56                      | 455  | --  | 470   | --   | 0,196      | --                   |
| 4x1,5                          | RE                    | --            | 12,1  | 0,17                       | 20   | --  | 28  | --   | 0,368      | --                   |
| 4x2,5                          | RE                    | --            | 7,41  | 0,29                       | 26   | --  | 36  | --   | 0,342      | --                   |
| 4x4                            | RE                    | --            | 4,61  | 0,46                       | 35   | --  | 48  | --   | 0,341      | --                   |
| 4x6                            | RE                    | --            | 3,08  | 0,69                       | 45   | --  | 60  | --   | 0,323      | --                   |
| 4x10                           | RE                    | --            | 1,83  | 1,15                       | 62   | --  | 80  | --   | 0,302      | --                   |
| 4x16                           | RE                    | FM            | 1,15  | 1,84                       | 85   | --  | 108   | --   | 0,286      | --                   |
| 4x25                           | RMV                   | FM            | 0,727                                       | 2,87                       | 116  | --  | 141   | --   | 0,279      | --                   |
| 4x35                           | SM                    | BD            | 0,524                                       | 4,02                       | 137  | --  | 167   | --   | 0,246      | --                   |
| 4x35                           | SM                    | FM            | 0,524                                       | 4,02                       | 137  | --  | 167   | --   | 0,246      | --                   |
| 4x50                           | SM                    | BD            | 0,387                                       | 5,74                       | 168  | --  | 197   | --   | 0,245      | --                   |
| 4x50                           | SM                    | FM            | 0,387                                       | 5,74                       | 168  | --  | 197   | --   | 0,245      | --                   |
| 4x70                           | SM                    | BD            | 0,268                                       | 8,04                       | 210  | --  | 241   | --   | 0,235      | --                   |
| 4x70                           | SM                    | FM            | 0,268                                       | 8,04                       | 210  | --  | 240   | --   | 0,235      | --                   |
| 4x95                           | SM                    | BD            | 0,193                                       | 10,91                      | 260  | --  | 288   | --   | 0,231      | --                   |
| 4x95                           | SM                    | FM            | 0,193                                       | 10,91                      | 260  | --  | 288   | --   | 0,231      | --                   |
| 4x120                          | SM                    | BD            | 0,153                                       | 13,78                      | 300  | --  | 324   | --   | 0,224      | --                   |
| 4x120                          | SM                    | FM            | 0,153                                       | 13,78                      | 299  | --  | 324   | --   | 0,224      | --                   |
| 4x150                          | SM                    | BD            | 0,124                                       | 17,23                      | 345  | --  | 364   | --   | 0,221      | --                   |
| 4x150                          | SM                    | FM            | 0,124                                       | 17,23                      | 344  | --  | 364   | --   | 0,221      | --                   |
| 4x185                          | SM                    | BD            | 0,0991                                      | 21,25                      | 395  | --  | 408   | --   | 0,218      | --                   |
| 4x185                          | SM                    | FM            | 0,0991                                      | 21,25                      | 395  | --  | 408   | --   | 0,218      | --                   |
| 4x240                          | SM                    | BD            | 0,0754                                      | 27,56                      | 465  | --  | 466   | --   | 0,210      | --                   |
| 4x240                          | SM                    | FM            | 0,0754                                      | 27,56                      | 465  | --  | 466   | --   | 0,210      | --                   |
| 5x1,5                          | RE                    | --            | 12,1  | 0,17                       | 20   | --  | 28  | --   | 0,377      | --                   |
| 5x2,5                          | RE                    | --            | 7,41  | 0,29                       | 27   | --  | 37  | --   | 0,352      | --                   |
| 5x4                            | RE                    | --            | 4,61  | 0,46                       | 37   | --  | 49  | --   | 0,351      | --                   |
| 5x6                            | RE                    | --            | 3,08  | 0,69                       | 46   | --  | 61  | --   | 0,332      | --                   |
| 5x10                           | RE                    | --            | 1,83  | 1,15                       | 64   | --  | 82  | --   | 0,312      | --                   |
| 5x16                           | RE                    | FM            | 1,15  | 1,84                       | 88   | --  | 110   | --   | 0,295      | --                   |
| 5x25                           | RMV                   | FM            | 0,727                                       | 2,87                       | 120  | --  | 142   | --   | 0,288      | --                   |

| No. of cores and cross-section | Shape of conductor *1 | Specification | Max. effective resistance conductor at 20°C | Short circuit current (1s) | Current carrying capacity single cable in air *2 | Current carrying capacity in air - trefoil *3 | Current carrying capacity single cable in ground *4 | Current carrying capacity in ground - trefoil *5 | Inductance | Inductance - trefoil |
|--------------------------------|-----------------------|---------------|---|----------------------------|--|---|---|--|------------|----------------------|
| mm <sup>2</sup>                |                       |               | Ω/km  | kA                         | A  | A   | A   | A  | mH/km      | mH/km                |
| 5x35                           | RMV                   | FM            | 0,524                                       | 4,02                       | 148  | --  | 171   | --   | 0,278      | --                   |
| 5x50                           | SM                    | BD            | 0,387                                       | 5,74                       | 176  | --  | 201   | --   | 0,252      | --                   |
| 5x50                           | SM                    | FM            | 0,387                                       | 5,74                       | 176  | --  | 200   | --   | 0,252      | --                   |
| 5x70                           | SM                    | BD            | 0,268                                       | 8,04                       | 223  | --  | 245   | --   | 0,237      | --                   |
| 5x70                           | SM                    | FM            | 0,268                                       | 8,04                       | 223  | --  | 245   | --   | 0,237      | --                   |
| 5x95                           | SM                    | BD            | 0,193                                       | 10,91                      | 271  | --  | 291   | --   | 0,234      | --                   |
| 5x95                           | SM                    | FM            | 0,193                                       | 10,91                      | 271  | --  | 291   | --   | 0,234      | --                   |
| 5x120                          | SM                    | BD            | 0,153                                       | 13,78                      | 313  | --  | 328   | --   | 0,223      | --                   |
| 5x120                          | SM                    | FM            | 0,153                                       | 13,78                      | 313  | --  | 328   | --   | 0,223      | --                   |

\*1 RE - Conductor class 1 - round solid; RMV - Conductor class 2 - round stranded compacted; SM - Conductor class 2 - sector-shaped stranded

\*2 Air temperature: 30 °C; Load factor: 1

\*3 Air temperature: 30 °C; Cable distance: 0 mm; Load factor: 1

\*4 Ground temperature: 20 °C; Thermal resistivity of ground: 1,0 K.m/W; Depth of cable laying: 0,7 m; Load factor: 1

\*5 Ground temperature: 20 °C; Thermal resistivity of ground: 1,0 K.m/W; Depth of cable laying: 0,7 m; Cable distance: 0 mm; Load factor: 1

\*6 Force is distributed over all cable conductors; Force for the pulling head or conductor grip