

Single-core high-voltage oil-filled cable

Construction

- Hollow conductor of round copper wires, stranded, segmented above 1000 m²
- Semi-conducting paper screen
- Conductor insulation of oil cable paper
- Höchstaedter and semiconductor paper tape
- Cotton tape with copper thread
- Corrugated copper sheath, radially watertight
- Corrugation filling, halogen-free
- HDPE outer sheath, halogen-free, black with two red stripes

Applications

In distribution networks and power stations.

Laying in underground tubes, indoors, in cable ducts, or buried.

A comprehensive range of sealing ends, joints and fixing elements is available from Brugg Cable.

Special features

Admissible impulse voltage 650 kV.

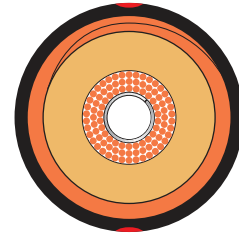
The HPDE outer sheath guarantees excellent insulation. High wear-resistance gives favorable laying conditions.

The cable is free of PCB.

Standards

SEV 3320.1977 + A1.1990 + A2.1990
IEC 141-1.1993

POCUW-T 132/76 kV



Technical data














| Cross-section | Dia-meter | Weight | Oil content | Capacitance | AC resistance at 60°C and 50 Hz | Reactance at 50 Hz s = 25 cm | Impedance at 60°C and 50 Hz | Laying data | |
|-----------------|-----------|---------|-------------|-------------|---------------------------------|---------------------------------|-----------------------------|-----------------------------------|--------------------|
| | | | | | | | | min. bending radius ¹⁾ | max. pulling force |
| mm ² | mm | kg/100m | l/100m | μF/km | Ω/km | Ω/km | Ω/km | mm | kN |
| 150 | 62 | 500 | 100 | 0.268 | 0.144 | 0.229 | 0.270 | 1250 | 9.0 |
| 200 | 64 | 570 | 110 | 0.288 | 0.107 | 0.222 | 0.247 | 1300 | 12.0 |
| 240 | 66 | 640 | 122 | 0.311 | 0.087 | 0.216 | 0.233 | 1350 | 14.0 |
| 300 | 67 | 695 | 122 | 0.319 | 0.070 | 0.214 | 0.225 | 1350 | 18.0 |
| 400 | 70 | 810 | 133 | 0.345 | 0.055 | 0.207 | 0.214 | 1400 | 24.0 |
| 500 | 73 | 940 | 148 | 0.371 | 0.043 | 0.201 | 0.206 | 1500 | 30.0 |
| 630 | 76 | 1115 | 157 | 0.399 | 0.034 | 0.195 | 0.198 | 1550 | 37.5 |
| 800 | 79 | 1300 | 169 | 0.425 | 0.027 | 0.190 | 0.192 | 1600 | 48.0 |
| 1000 | 84 | 1560 | 187 | 0.461 | 0.021 | 0.184 | 0.186 | 1700 | 60.0 |
| 1200 | 88 | 1770 | 203 | 0.495 | 0.018 | 0.179 | 0.180 | 1800 | 72.0 |
| 1600 | 96 | 2215 | 234 | 0.555 | 0.014 | 0.170 | 0.171 | 1950 | 96.0 |
| 2000 | 101 | 2620 | 240 | 0.589 | 0.012 | 0.166 | 0.166 | 2050 | 120.0 |












Notice:

¹⁾ Min. installation radius = 0.8 x min. traction radius

– For further information on transport, laying, installation and test standards, see chapter "Technical Information"

Load currents
POCUW-T 132/76 kV

| Laying | in tube elements, buried | | | | open air | | | | | |
|-----------------------------|--|---|---|---|--|---|--|---|---|---|
| |  s = 25 cm | | | |  s = 2 · d | | |  touching | | |
| Mode | Regular service | | Emerg. service ³⁾ | Regular or industrial service | | Emerg. service ³⁾ | Regular industrial service | | Emerg. service ³⁾ | |
| Conductor temperature 60 °C | ≤ 80 °C ¹⁾ | 80 °C ²⁾ | 95 °C | 60 °C | 80 °C | 95 °C | 60 °C | 80 °C | 95 °C | |
| Earthing |  |  |  |  |  |  |  |  |  |  |
| Cross-section | | | | | | | | | | |
| mm ² | A | A | A | A | A | A | A | A | A | A |
| 150 | 321 | 388 | 388 | 465 | 367 | 475 | 537 | 319 | 419 | 477 |
| 200 | 378 | 459 | 459 | 551 | 435 | 564 | 638 | 377 | 496 | 564 |
| 240 | 425 | 515 | 515 | 622 | 495 | 643 | 728 | 427 | 562 | 641 |
| 300 | 477 | 578 | 578 | 699 | 558 | 725 | 821 | 480 | 633 | 721 |
| 400 | 544 | 661 | 661 | 802 | 647 | 840 | 952 | 552 | 729 | 832 |
| 500 | 620 | 745 | 754 | 919 | 747 | 972 | 1102 | 631 | 836 | 955 |
| 630 | 713 | 852 | 869 | 1066 | 863 | 1126 | 1279 | 721 | 957 | 1096 |
| 800 | 800 | 946 | 978 | 1206 | 982 | 1285 | 1461 | 807 | 1076 | 1235 |
| 1000 | 909 | 1065 | 1112 | 1374 | 1133 | 1481 | 1699 | 936 | 1248 | 1431 |
| 1200 | 974 | 1128 | 1196 | 1486 | 1235 | 1619 | 1843 | 999 | 1338 | 1540 |
| 1600 | 1119 | 1280 | 1380 | 1735 | 1439 | 1895 | 2163 | 1134 | 1529 | 1765 |
| 2000 | 1216 | 1379 | 1506 | 1905 | 1592 | 2102 | 2404 | 1232 | 1667 | 1930 |

| Laying | buried | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|--|---|---|---|
| |  touching | | | | | | | | | |
| Mode | Regular service | | Industrial service | | | Emerg. service ³⁾ | Regular service | | Emerg. service ³⁾ | |
| Conductor temperature 60 °C | ≤ 80 °C ¹⁾ | 80 °C ²⁾ | 60 °C | 80 °C ²⁾ | 95 °C | 60 °C | ≤ 80 °C ¹⁾ | 80 °C ²⁾ | 95 °C | |
| Earthing |  |  |  |  |  |  |  |  |  |  |
| Cross-section | | | | | | | | | | |
| mm ² | A | A | A | A | A | A | A | A | A | A |
| 150 | 317 | 332 | 381 | 357 | 427 | 469 | 310 | 323 | 374 | 461 |
| 200 | 370 | 384 | 446 | 418 | 502 | 551 | 359 | 369 | 434 | 538 |
| 240 | 414 | 425 | 499 | 470 | 564 | 620 | 399 | 406 | 483 | 602 |
| 300 | 463 | 475 | 559 | 527 | 633 | 696 | 442 | 447 | 536 | 671 |
| 400 | 526 | 534 | 636 | 601 | 723 | 795 | 495 ¹⁾ | 495 | 602 | 758 |
| 500 | 592 | 596 | 718 | 680 | 820 | 903 | 535 ¹⁾ | 535 | 663 | 842 |
| 630 | 664 ¹⁾ | 664 | 810 | 769 | 931 | 1026 | 582 ¹⁾ | 582 | 733 | 940 |
| 800 | 725 ¹⁾ | 725 | 897 | 853 | 1036 | 1145 | 621 ¹⁾ | 621 | 797 | 1031 |
| 1000 | 824 ¹⁾ | 824 | 1025 | 980 | 1190 | 1315 | 650 ¹⁾ | 650 | 851 | 1114 |
| 1200 | 850 ¹⁾ | 850 | 1077 | 1032 | 1259 | 1395 | 633 ¹⁾ | 633 | 846 | 1121 |
| 1600 | 924 ¹⁾ | 924 | 1196 | 1151 | 1412 | 1570 | 658 ¹⁾ | 658 | 898 | 1207 |
| 2000 | 981 ¹⁾ | 981 | 1283 | 1237 | 1524 | 1699 | 673 ¹⁾ | 673 | 928 | 1259 |

¹⁾ Conductor temperature limited by transfer temperature to earth of 50°C

²⁾ Transfer temperature to earth exceeding 50°

³⁾ Emergency service for max. 8h/day and 100h/year (transfer temperature to earth exceeding 50°C)

Notice:

– For calculation conditions, short-time loading and permissible short-circuit currents, see chapter "Technical Information"