



## Technical data

- Special PVC control cables Adapted to DIN VDE 0262/12.95 and DIN VDE 0281 part 13, with insulation thickness for 1 kV type
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Power ratings**  
per DIN VDE 0298
- **Minimum bending radius**  
flexing 7,5x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, as per DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Black cores with white figure imprints to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- colour black (RAL 9005)

## Properties

- Extensively oil resistant  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Resistant to ultra violet rays

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core (OZ).
- Different dimensions are also available with red resp. blue cores.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Wiring cable for measuring and controlling purposes in tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial- or as underwater cable. The cores have been numbered in such a way that the numbers are easily identifiable, even if the cable has only been stripped back a few cm. The core numbers have been underlined to avoid confusion. The earth core is located in the outer layer. The black, special PVC outer sheath is resistant to the ultra violet radiation. Mainly used in South-European, Eastern and Arabian countries.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

| Part No. | No. cores x cross-sec. mm <sup>2</sup> | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|--|----------------|---------------------|--------------------|---------|
| 10550    | 2 x 0,5                                | 6,4            | 9,6                 | 56,0               | 20      |
| 10551    | 3 G 0,5                                | 6,8            | 14,4                | 68,0               | 20      |
| 10552    | 3 x 0,5                                | 6,8            | 14,4                | 68,0               | 20      |
| 10553    | 4 G 0,5                                | 7,6            | 19,0                | 100,0              | 20      |
| 10554    | 4 x 0,5                                | 7,6            | 19,0                | 100,0              | 20      |
| 10555    | 5 G 0,5                                | 8,2            | 24,0                | 117,0              | 20      |
| 10556    | 5 x 0,5                                | 8,2            | 24,0                | 117,0              | 20      |
| 10557    | 6 G 0,5                                | 9,1            | 29,0                | 126,0              | 20      |
| 10558    | 7 G 0,5                                | 9,8            | 33,6                | 138,0              | 20      |
| 10559    | 7 x 0,5                                | 9,8            | 33,6                | 138,0              | 20      |
| 10560    | 8 G 0,5                                | 10,7           | 38,0                | 150,0              | 20      |
| 10561    | 8 x 0,5                                | 10,7           | 38,0                | 150,0              | 20      |
| 10562    | 10 G 0,5                               | 11,6           | 48,0                | 176,0              | 20      |
| 10563    | 12 G 0,5                               | 12,2           | 58,0                | 200,0              | 20      |
| 10564    | 12 x 0,5                               | 12,2           | 58,0                | 200,0              | 20      |
| 10565    | 14 G 0,5                               | 12,8           | 67,0                | 230,0              | 20      |
| 10566    | 16 G 0,5                               | 13,7           | 76,0                | 250,0              | 20      |
| 10567    | 18 G 0,5                               | 14,4           | 86,0                | 276,0              | 20      |
| 10568    | 20 G 0,5                               | 15,3           | 96,0                | 293,0              | 20      |
| 10569    | 21 G 0,5                               | 16,0           | 96,0                | 305,0              | 20      |
| 10570    | 25 G 0,5                               | 17,2           | 120,0               | 335,0              | 20      |
| 10571    | 30 G 0,5                               | 18,0           | 144,0               | 348,0              | 20      |
| 10572    | 32 G 0,5                               | 18,9           | 154,0               | 355,0              | 20      |
| 10573    | 34 G 0,5                               | 19,8           | 163,0               | 520,0              | 20      |
| 10574    | 40 G 0,5                               | 21,2           | 192,0               | 590,0              | 20      |
| 10575    | 42 G 0,5                               | 21,2           | 202,0               | 595,0              | 20      |
| 10576    | 50 G 0,5                               | 23,4           | 240,0               | 715,0              | 20      |
| 10577    | 52 G 0,5                               | 24,3           | 252,0               | 740,0              | 20      |
| 10578    | 61 G 0,5                               | 26,0           | 293,0               | 840,0              | 20      |
| 10579    | 65 G 0,5                               | 26,8           | 312,0               | 880,0              | 20      |
| 10580    | 80 G 0,5                               | 28,9           | 384,0               | 960,0              | 20      |
| 10581    | 100 G 0,5                              | 33,5           | 480,0               | 1050,0             | 20      |

| Part No. | No. cores x cross-sec. mm <sup>2</sup> | Outer ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|--|----------------|---------------------|--------------------|---------|
| 10582    | 2 x 0,75                               | 6,8            | 14,4                | 66,0               | 18      |
| 10583    | 3 G 0,75                               | 7,2            | 21,6                | 74,0               | 18      |
| 10584    | 3 x 0,75                               | 7,2            | 21,6                | 74,0               | 18      |
| 10585    | 4 G 0,75                               | 8,0            | 29,0                | 126,0              | 18      |
| 10586    | 4 x 0,75                               | 8,0            | 29,0                | 126,0              | 18      |
| 10587    | 5 G 0,75                               | 8,8            | 36,0                | 140,0              | 18      |
| 10588    | 5 x 0,75                               | 8,8            | 36,0                | 140,0              | 18      |
| 10589    | 6 G 0,75                               | 9,7            | 43,0                | 170,0              | 18      |
| 10590    | 6 x 0,75                               | 9,7            | 43,0                | 170,0              | 18      |
| 10591    | 7 G 0,75                               | 10,7           | 50,0                | 190,0              | 18      |
| 10592    | 7 x 0,75                               | 10,7           | 50,0                | 190,0              | 18      |
| 10593    | 8 G 0,75                               | 11,5           | 58,0                | 212,0              | 18      |
| 10594    | 8 x 0,75                               | 11,5           | 58,0                | 212,0              | 18      |
| 10595    | 9 G 0,75                               | 12,5           | 65,0                | 227,0              | 18      |
| 10596    | 10 G 0,75                              | 12,7           | 72,0                | 238,0              | 18      |
| 10597    | 12 G 0,75                              | 13,1           | 86,0                | 257,0              | 18      |
| 10598    | 12 x 0,75                              | 13,1           | 86,0                | 257,0              | 18      |
| 10599    | 14 G 0,75                              | 13,9           | 101,0               | 286,0              | 18      |
| 10600    | 15 G 0,75                              | 14,7           | 108,0               | 319,0              | 18      |
| 10601    | 18 G 0,75                              | 15,6           | 130,0               | 362,0              | 18      |
| 10602    | 20 G 0,75                              | 16,6           | 144,0               | 394,0              | 18      |
| 10603    | 21 G 0,75                              | 17,3           | 151,0               | 422,0              | 18      |
| 10604    | 25 G 0,75                              | 18,9           | 180,0               | 486,0              | 18      |
| 10605    | 32 G 0,75                              | 20,5           | 230,0               | 595,0              | 18      |
| 10606    | 34 G 0,75                              | 21,5           | 245,0               | 638,0              | 18      |
| 10607    | 37 G 0,75                              | 21,5           | 260,0               | 696,0              | 18      |
| 10608    | 40 G 0,75                              | 23,2           | 288,0               | 726,0              | 18      |
| 10609    | 41 G 0,75                              | 23,2           | 296,0               | 750,0              | 18      |
| 10610    | 42 G 0,75                              | 23,2           | 302,0               | 770,0              | 18      |
| 10611    | 50 G 0,75                              | 25,6           | 360,0               | 895,0              | 18      |
| 10612    | 61 G 0,75                              | 28,2           | 439,0               | 1070,0             | 18      |
| 10613    | 65 G 0,75                              | 29,0           | 468,0               | 1110,0             | 18      |
| 10614    | 80 G 0,75                              | 31,4           | 576,0               | 1500,0             | 18      |
| 10615    | 100 G 0,75                             | 36,2           | 720,0               | 1889,0             | 18      |