

# Heat resistant cable 2GTL



**Application:** This connection cable is primarily used where great flexibility is required and a great thermal stress provided, e.g. transformers, generators, engines etc. For installation indoors and in cable ducts for power plant, industry and distribution networks. The halogen-free coating lends the cable good non-slip properties and abrasion-resistance as well as a very good resistance to transformer oil and light fuel oil.

## Construction and technical data:

- conductor
- separating tape
- insulation
- enamel varnished yarn braiding

|  |  |
|--|--|
| <b>Conductor material:</b>                           | tinned copper                            |
| <b>Conductor construction:</b>                       | Class 5 = flexible                       |
| <b>Insulation:</b>                                   | silicone rubber                          |
| <b>Covering:</b>                                     | synthetic yarn, varnish coating with PUR |
| <b>Flame-retardant:</b>                              | VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C) |
| <b>Smoke density:</b>                                | DIN EN 61034/IEC 61034                   |
| <b>Halogen-free:</b>                                 | DIN EN 50267/IEC 60754                   |
| <b>UV-resistant:</b>                                 | yes                                      |
| <b>Oil-resistant:</b>                                | yes                                      |
| <b>Ozone-resistant:</b>                              | yes                                      |
| <b>Max. temperature at conductor, °C:</b>            | 180 °C                                   |
| <b>Permitted outer cable temperature, fixed, °C:</b> | -50 - +180 °C                            |
| <b>Bending radius, fixed installation:</b>           | 6 x Ø                                    |



*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.*

## 2GTL 1.1/1.9 kV

|  |        |
|--|--------|
| <b>Colour of outer sheath:</b>                                     | yellow |
| <b>Nominal voltage U<sub>o</sub>:</b>                              | 1.1 kV |
| <b>Nominal voltage U:</b>  | 1.9 kV |
| <b>Maximum permitted operating voltage in three-phase systems:</b> | 2.2 kV |
| <b>Test voltage:</b>   | 4 kV   |

| part no. | part name | I <sub>bl</sub> [A] | Ø [mm] | Cu [kg/km] | G [kg] |
|----------|-----------|---------------------|--------|------------|--------|
| 036142   | 01X70 YE  | 510                 | 16.6   | 672        | 752    |
| 036433   | 01X95 YE  | 620                 | 19     | 912        | 1009   |
| 037403   | 01X120 YE | 700                 | 19.8   | 1152       | 1246   |
| 036143   | 01X150 YE | 780                 | 22.5   | 1440       | 1557   |
| 036498   | 01X185 YE | 850                 | 24.8   | 1776       | 1903   |
| 036144   | 01X240 YE | 960                 | 28     | 2304       | 2453   |
| 037586   | 01X400 YE | 1505                | 33.4   | 3840       | 4000   |

## 2GTL 3.3/4.2 kV

|  |           |
|--|-----------|
| <b>Colour of outer sheath:</b>                                     | red-brown |
| <b>Nominal voltage U<sub>o</sub>:</b>                              | 3.3 kV    |
| <b>Nominal voltage U:</b>  | 4.2 kV    |
| <b>Maximum permitted operating voltage in three-phase systems:</b> | 6.6 kV    |
| <b>Test voltage:</b>   | 10 kV     |

| part no. | part name | I <sub>bl</sub> [A] | Ø [mm] | Cu [kg/km] | G [kg] |
|----------|-----------|---------------------|--------|------------|--------|
| 036465   | 01X16 BN  | 205                 | 11.3   | 153,6      | 236    |
| 036434   | 01X185 BN | 850                 | 25.2   | 1776       | 1921   |
| 036878   | 01X240 BN | 960                 | 28.3   | 2304       | 2474   |
| 037635   | 01X400 SW | 1472                | 36.8   | 3840       | 4124   |

## 2GTL 13.8/15 kV

|  |         |
|--|---------|
| <b>Colour of outer sheath:</b>                                     | black   |
| <b>Nominal voltage U<sub>o</sub>:</b>                              | 13.8 kV |
| <b>Nominal voltage U:</b>  | 15 kV   |
| <b>Maximum permitted operating voltage in three-phase systems:</b> | 27.6 kV |
| <b>Test voltage:</b>   | 31 kV   |

| part no. | part name | I <sub>bl</sub> [A] | Ø [mm] | Cu [kg/km] | G [kg] |
|----------|-----------|---------------------|--------|------------|--------|
| 036264   | 01X10 BK  | 120                 | 14.9   | 96         | 277    |
| 036326   | 01X16 BK  | 185                 | 15.8   | 154        | 346    |
| 036435   | 01X25 BK  | 225                 | 17.2   | 240        | 454    |
| 036331   | 01X35 BK  | 290                 | 18.3   | 336        | 565    |
| 036298   | 01X50 BK  | 365                 | 20     | 480        | 729    |
| 036436   | 01X70 BK  | 460                 | 22.1   | 672        | 957    |
| 036437   | 01X95 BK  | 560                 | 24.1   | 912        | 1219   |
| 036578   | 01X120 BK | 625                 | 14.8   | 1152       | 1470   |
| 036579   | 01X150 BK | 695                 | 26.6   | 1440       | 1769   |
| 036323   | 01X185 BK | 765                 | 29.3   | 1776       | 2123   |
| 036460   | 01X240 BK | 865                 | 31.9   | 2304       | 2665   |

|     |                         |
|-----|-------------------------|
| Ibl | Ampacity in air (30 °C) |
| Ø   | outer diameter approx.  |
| Cu  | Copper weight (GER)     |
| G   | net weight per 1000     |