

# Medium voltage reeling cable

## Rheymfirm<sup>®</sup> (RTS) R-(N)TSCGEWOEUS



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

**Application:** Flexible reeling cable for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. For laying indoors, outdoors, in water and in mining.

### Construction and technical data:

|  |   |
|--|---|
| <b>Standard:</b>                                     | DIN VDE 0250-813 (with ref. to)             |
| <b>Conductor material:</b>                           | tinned copper                               |
| <b>Conductor construction:</b>                       | Class 5 = flexible                          |
| <b>Insulation:</b>                                   | rubber 3GI3                                 |
| <b>Electrical field control:</b>                     | inner and outer semiconducting rubber layer |
| <b>Arrangement of protective conductors:</b>         | split in the outer interstices              |
| <b>Material inner sheath:</b>                        | rubber GM1b                                 |
| <b>Torsion protection:</b>                           | polyester braid                             |
| <b>Torsion:</b>                                      | +/- 25 °/m                                  |
| <b>Sheathing material:</b>                           | rubber (CR) 5GM5                            |
| <b>Colour of outer sheath:</b>                       | red   |
| <b>Flame-retardant:</b>                              | VDE 0482-332-1-2/IEC 60332-1-2              |
| <b>UV-resistant:</b>                                 | yes   |
| <b>Oil-resistant:</b>                                | EN 60811-2-1                                |
| <b>Max. temperature at conductor, °C:</b>            | 90 °C                                       |
| <b>Permitted outer cable temperature, fixed, °C:</b> | -45 - +80 °C                                |
| <b>Permitted outer cable temperature, moved, °C:</b> | -35 - +80 °C                                |
| <b>Bending radius, fixed installation:</b>           | 6 x Ø                                       |
| <b>Bending radius, moving application:</b>           | 12 x Ø                                      |
| <b>Maximum tensile strength at the conductor:</b>    | 30 N/mm <sup>2</sup>                        |



*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.*

**Rheymfirm<sup>®</sup> (RTS) R-(N)TSCGEWOEUS 8.7/15 kV**

**Nominal voltage U<sub>0</sub>:** 8.7 kV  
**Nominal voltage U:** 15 kV  
**Maximum permitted operating voltage in three-phase systems:** 18 kV  
**Test voltage:** 24 kV

| part no. | part name      | RI [Ohm/km] | I <sub>bl</sub> [A] | I <sub>k</sub> [kA] | Ø [mm] | F <sub>zp</sub> [N] | F <sub>zd</sub> [N] | Cu   | G [kg] |
|----------|----------------|-------------|---------------------|---------------------|--------|---------------------|---------------------|------|--------|
| 051461   | 03X35 + 3X25/3 | 0.554       | 172                 | 5.2                 | 43     | 2100                | 3150                | 1310 | 3130   |

**Rheymfirm<sup>®</sup> (RTS) R-(N)TSCGEWOEUS 12/20 kV**

**Nominal voltage U<sub>0</sub>:** 12 kV  
**Nominal voltage U:** 20 kV  
**Maximum permitted operating voltage in three-phase systems:** 24 kV  
**Test voltage:** 29 kV

| part no. | part name      | RI [Ohm/km] | I <sub>bl</sub> [A] | I <sub>k</sub> [kA] | Ø [mm] | F <sub>zp</sub> [N] | F <sub>zd</sub> [N] | Cu   | G [kg] |
|----------|----------------|-------------|---------------------|---------------------|--------|---------------------|---------------------|------|--------|
| 052238   | 03X35 + 3X25/3 | 0.554       | 172                 | 5.2                 | 50     | 2100                | 3150                | 1296 | 3370   |

|                 |                              |
|-----------------|------------------------------|
| RI              | Conductor resistance         |
| I <sub>bl</sub> | Ampacity in air (30 °C)      |
| I <sub>k</sub>  | Short-circuit current (1 s)  |
| Ø               | outer diameter approx.       |
| F <sub>zp</sub> | Tensile strength (permanent) |
| F <sub>zd</sub> | Tensile strength (dynamic)   |
| Cu              | Copper weight (GER)          |
| G               | net weight per 1000          |