

## Gummileitungen / Rubber Cables

### (N)TSCGEWUEU-R

Trommelbare Mittelspannungsleitung  
Medium voltage, flexible power supply cable for reeling applications.



#### Verwendung:

Flexible power supply cable for use in strip and open-pit mining facilities, for high mechanical stresses, designed for connection of large material handling machines such as excavators, dumpers or mobile crushers. Main application: operation on cable reels.  
[INDEX:20201001SQ]

#### Aufbau:

- Electrical field control: Inner and outer layers of semiconductive rubber.
- Core arrangement: Three main conductors laid-up with protective-earth conductor split into 3 in the outer interstices.
- Inner sheath: Special EPR compound (acc. to DIN VDE 0207, Part 21)
- Anti-torsion reinforcement: Braid of polyamide threads in a vulcanized bond between inner and outer sheath being integral part of an outer sheath. Protection from transverse and longitudinal stress.

#### Technische Daten:

|                                   |   |
|-----------------------------------|---|
| Leiter Werkstoff                  |   |
| Leiterklasse                      | Very finely stranded class 6 (EN 60228, DIN VDE 0295) not tinned, electrolytic copper.              |
| Aderisolationwerkstoff            | EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20).       |
| Aderkennung                       | Natural colouring with black semiconductive rubber with printed white numbers 1-3.                  |
| Verseilung                        |   |
| Außenmantelwerkstoff              | 5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21), waterproof. |
| Mantelfarbe                       | Rot   |
| Nennspannung [V]                  | 3.6/6 kV<br>6/10 kV<br>8.7/15 kV<br>12/20 kV<br>14/25 kV<br>18/30 k                                 |
| Prüfspannung [V]                  | 11k V bis 43k   |
| Leiterwiderstand                  |   |
| Isolationswiderstand              |   |
| Strombelastbarkeit                |   |
| kleinster Biegeradius fest [xd]   |   |
| kleinster Biegeradius bewegt [xd] | 20 x d  |
| Betriebstemp. fest min/max [C]    | -40°C bis +90   |
| Betriebstemp. bew. min/mac [C]    | -25°C bis +80   |
| Temperatur am Leiter max.         | +90°C   |
| Brandverhalten                    |   |
| Normen                            |   |

#### Application:

Flexible power supply cable for use in strip and open-pit mining facilities, for high mechanical stresses, designed for connection of large material handling machines such as excavators, dumpers or mobile crushers. Main application: operation on cable reels.  
[INDEX:20201001SQ]

#### Construction:

- Electrical field control: Inner and outer layers of semiconductive rubber.
- Core arrangement: Three main conductors laid-up with protective-earth conductor split into 3 in the outer interstices.
- Inner sheath: Special EPR compound (acc. to DIN VDE 0207, Part 21)
- Anti-torsion reinforcement: Braid of polyamide threads in a vulcanized bond between inner and outer sheath being integral part of an outer sheath. Protection from transverse and longitudinal stress.

#### Technical Data:

|                                |   |
|--------------------------------|---|
| Conductor Material             | *   |
| Conductor class                | Very finely stranded class 6 (EN 60228, DIN VDE 0295) not tinned, electrolytic copper.              |
| core insulation                | EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20).       |
| core identification            | Natural colouring with black semiconductive rubber with printed white numbers 1-3.                  |
| stranding                      | *   |
| outer sheath                   | 5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21), waterproof. |
| sheath colour                  | Red   |
| rated voltage [V]              | 3.6/6 kV<br>6/10 kV<br>8.7/15 kV<br>12/20 kV<br>14/25 kV<br>18/30 k                                 |
| testing voltage [V]            | 11k V to 43k  |
| conductor resistance           | *   |
| insulation resistance          | *   |
| current carrying capacity      | *   |
| min. bending radius fixed [xd] | *   |
| min. bending radius moved [xd] | 20 x d  |
| working temp fixed min/max [C] | -40°C up to +90   |
| working temp moved min/mac [C] | -25°C up to +80   |
| temp at conductor max.         | +90°C   |
| burning behaviour              | *   |
| Approvals                      | *   |

## Kabel / Cable

| Art Nr.<br>Part No. | Adern x Querschnitt<br>no. of cores x cross section | Außen Ø ca. mm<br>outer Ø ca. mm | CU Gewicht<br>kg/100m<br>copper weight<br>kg/100m | Gewicht kg/100m<br>weight kg/100m |
|---------------------|---|----------------------------------|---|-----------------------------------|
|                     | 3 x 25 + 3x25/3 3.6/6 kV                            | 39.20                            | 0.00  | 254.50                            |
|                     | 3 x 25 + 3x50/3 3.6/6 kV                            | 43.10                            | 0.00  | 321.60                            |
|                     | 3 x 25 + 3x25/3 6/10 kV                             | 41.80                            | 0.00  | 276.50                            |
|                     | 3 x 25 + 3x50/3 6/10 kV                             | 44.50                            | 0.00  | 335.50                            |
|                     | 3 x 25 + 3x25/3 8.7/15 kV                           | 45.20                            | 0.00  | 308.50                            |
|                     | 3 x 25 + 3x50/3 8.7/15 kV                           | 46.10                            | 0.00  | 350.00                            |
|                     | 3 x 25 + 3x25/3 12/20 kV                            | 48.20                            | 0.00  | 338.50                            |
|                     | 3 x 25 + 3x50/3 12/20 kV                            | 48.20                            | 0.00  | 372.00                            |
|                     | 3 x 25 + 3x25/3 14/25kV                             | 54.40                            | 0.00  | 403.00                            |
|                     | 3 x 25 + 3x50/3 14/25 kV                            | 54.40                            | 0.00  | 438.00                            |
|                     | 3 x 25 + 3x25/3 18/30 kV                            | 57.40                            | 0.00  | 441.50                            |
|                     | 3 x 25 + 3x50/3 18/30 kV                            | 57.40                            | 0.00  | 475.00                            |
|                     | 3 x 35 + 3x25/3 3.6/6 kV                            | 43.30                            | 0.00  | 308.70                            |
|                     | 3 x 35 + 3x50/3 3.6/6 kV                            | 45.80                            | 0.00  | 366.00                            |
|                     | 3 x 35 + 3x25/3 6/10 kV                             | 45.00                            | 0.00  | 325.00                            |
|                     | 3 x 35 + 3x50/3 6/10 kV                             | 47.10                            | 0.00  | 379.50                            |
|                     | 3 x 35 + 3x25/3 8.7/15 kV                           | 48.40                            | 0.00  | 359.00                            |
|                     | 3 x 35 + 3x50/3 8.7/15 kV                           | 48.40                            | 0.00  | 392.50                            |
|                     | 3 x 35 + 3x25/3 12/20 kV                            | 51.40                            | 0.00  | 391.00                            |
|                     | 3 x 35 + 3x50/3 12/20 kV                            | 51.40                            | 0.00  | 424.00                            |
|                     | 3 x 35 + 3x25/3 14/25 kV                            | 56.60                            | 0.00  | 444.00                            |
|                     | 3 x 35 + 3x50/3 14/25 kV                            | 56.60                            | 0.00  | 479.00                            |
|                     | 3 x 35 + 3x25/3 18/30 kV                            | 60.60                            | 0.00  | 500.50                            |
|                     | 3 x 35 + 3x50/3 18/30 kV                            | 60.60                            | 0.00  | 534.00                            |
|                     | 3 x 50 + 3x25/3 3.6/6 kV                            | 46.80                            | 0.00  | 381.00                            |
|                     | 3 x 50 + 3x50/3 3.6/6 kV                            | 48.00                            | 0.00  | 428.00                            |
|                     | 3 x 50 + 3x25/3 6/10 kV                             | 48.50                            | 0.00  | 398.50                            |
|                     | 3 x 50 + 3x50/3 6/10 kV                             | 48.50                            | 0.00  | 432.00                            |
|                     | 3 x 50 + 3x25/3 8.7/15 kV                           | 52.00                            | 0.00  | 435.00                            |
|                     | 3 x 50 + 3x50/3 8.7/15 kV                           | 52.00                            | 0.00  | 469.00                            |
|                     | 3 x 50 + 3x25/3 12/20 kV                            | 56.80                            | 0.00  | 492.50                            |
|                     | 3 x 50 + 3x50/3 12/20 kV                            | 56.80                            | 0.00  | 546.00                            |
|                     | 3 x 50 + 3x25/3 14/25 kV                            | 60.00                            | 0.00  | 516.00                            |
|                     | 3 x 50 + 3x50/3 14/25 kV                            | 60.00                            | 0.00  | 551.00                            |
|                     | 3 x 50 + 3x25/3 18/30 kV                            | 64.50                            | 0.00  | 592.00                            |
|                     | 3 x 50 + 3x50/3 18/30 kV                            | 64.50                            | 0.00  | 625.50                            |

| Art Nr.<br>Part No. | Adern x Querschnitt<br>no. of cores x cross section | Außen Ø ca. mm<br>outer Ø ca. mm | CU Gewicht<br>kg/100m<br>copper weight<br>kg/100m | Gewicht kg/100m<br>weight kg/100m |
|---------------------|---|----------------------------------|---|-----------------------------------|
|                     | 3 x 70 + 3x35/3 3.6/6 kV                            | 50.50                            | 0.00  | 475.00                            |
|                     | 3 x 70 + 3x50/3 3.6/6 kV                            | 50.50                            | 0.00  | 496.00                            |
|                     | 3 x 70 + 3x35/3 6/10 kV                             | 53.30                            | 0.00  | 505.50                            |
|                     | 3 x 70 + 3x50/3 6/10 kV                             | 55.10                            | 0.00  | 548.50                            |
|                     | 3 x 70 + 3x35/3 8.7/15 kV                           | 57.10                            | 0.00  | 550.50                            |
|                     | 3 x 70 + 3x50/3 8.7/15 kV                           | 57.10                            | 0.00  | 571.50                            |
|                     | 3 x 70 + 3x35/3 12/20 kV                            | 60.50                            | 0.00  | 593.50                            |
|                     | 3 x 70 + 3x50/3 12/20 kV                            | 60.50                            | 0.00  | 614.50                            |
|                     | 3 x 70 + 3x35/3 14/25 kV                            | 65.70                            | 0.00  | 653.50                            |
|                     | 3 x 70 + 3x50/3 14/25 kV                            | 65.70                            | 0.00  | 676.00                            |
|                     | 3 x 70 + 3x35/3 18/30 kV                            | 69.30                            | 0.00  | 714.50                            |
|                     | 3 x 70 + 3x50/3 18/30 kV                            | 69.30                            | 0.00  | 736.00                            |
|                     | 3 x 95 + 3x50/3 3.6/6 kV                            | 56.20                            | 0.00  | 623.00                            |
|                     | 3 x 95 + 3x50/3 6/10 kV                             | 57.90                            | 0.00  | 643.00                            |
|                     | 3 x 95 + 3x50/3 8.7/15 kV                           | 61.40                            | 0.00  | 687.00                            |
|                     | 3 x 95 + 3x50/3 12/20 kV                            | 65.40                            | 0.00  | 741.50                            |
|                     | 3 x 95 + 3x50/3 14/25 kV                            | 69.30                            | 0.00  | 775.00                            |
|                     | 3 x 95 + 3x50/3 18/30 kV                            | 73.10                            | 0.00  | 855.00                            |
|                     | 3 x 120 + 3x70/3 3.6/6 kV                           | 58.40                            | 0.00  | 713.60                            |
|                     | 3 x 120 + 3x70/3 6/10 kV                            | 60.10                            | 0.00  | 734.00                            |
|                     | 3 x 120 + 3x70/3 8.7/15 kV                          | 64.80                            | 0.00  | 797.50                            |
|                     | 3 x 120 + 3x70/3 12/20 kV                           | 69.30                            | 0.00  | 865.00                            |
|                     | 3 x 120 + 3x70/3 14/25 kV                           | 71.90                            | 0.00  | 868.00                            |
|                     | 3 x 120 + 3x70/3 18/30 kV                           | 78.50                            | 0.00  | 1009.50                           |
|                     | 3 x 150 + 3x70/3 3.6/6 kV                           | 65.70                            | 0.00  | 865.00                            |
|                     | 3 x 150 + 3x70/3 6/10 kV                            | 67.20                            | 0.00  | 889.00                            |
|                     | 3 x 150 + 3x70/3 8.7/15 kV                          | 70.60                            | 0.00  | 939.00                            |
|                     | 3 x 150 + 3x70/3 12/20 kV                           | 73.60                            | 0.00  | 985.00                            |
|                     | 3 x 150 + 3x70/3 14/25 kV                           | 76.90                            | 0.00  | 997.00                            |
|                     | 3 x 150 + 3x70/3 18/30 kV                           | 82.80                            | 0.00  | 1138.00                           |
|                     | 3 x 185 + 3x95/3 3.6/6 kV                           | 69.10                            | 0.00  | 958.50                            |
|                     | 3 x 185 + 3x95/3 6/10 kV                            | 70.80                            | 0.00  | 984.00                            |
|                     | 3 x 185 + 3x95/3 8.7/15 kV                          | 74.30                            | 0.00  | 1037.00                           |
|                     | 3 x 185 + 3x95/3 12/20 kV                           | 79.10                            | 0.00  | 1117.00                           |
|                     | 3 x 185 + 3x95/3 14/25 kV                           | 83.40                            | 0.00  | 1193.00                           |
|                     | 3 x 185 + 3x95/3 18/30 kV                           | 86.80                            | 0.00  | 1253.00                           |

### Kontakt:

## Kabel / Cable

| Art Nr.<br>Part No. | Adern x Querschnitt<br>no. of cores x cross section | Außen Ø ca. mm<br>outer Ø ca. mm | CU Gewicht<br>kg/100m<br>copper weight<br>kg/100m | Gewicht kg/100m<br>weight kg/100m |
|---------------------|---|----------------------------------|---|-----------------------------------|
|                     | 3 x 240 + 3x120/3 3.6/6 kV                          | 74.10                            | 0.00  | 1177.20                           |
|                     | 3 x 240 + 3x120/3 6/10 kV                           | 77.60                            | 0.00  | 1236.00                           |
|                     | 3 x 240 + 3x120/3 8.7/15 kV                         | 81.00                            | 0.00  | 1294.00                           |
|                     | 3 x 240 + 3x120/3 12/20 kV                          | 84.00                            | 0.00  | 1346.00                           |
|                     | 3 x 240 + 3x120/3 14/25 kV                          | 88.30                            | 0.00  | 1418.50                           |
|                     | 3 x 240 + 3x120/3 18/30 kV                          | 91.80                            | 0.00  | 1490.00                           |
|                     | 3 x 300 + 3x150/3 3.6/6 kV                          | 80.80                            | 0.00  | 1444.00                           |
|                     | 3 x 300 + 3x150/3 6/10 kV                           | 82.50                            | 0.00  | 1474.00                           |
|                     | 3 x 300 + 3x150/3 8.7/15 kV                         | 86.00                            | 0.00  | 1535.00                           |
|                     | 3 x 300 + 3x150/3 14/25 kV                          | 93.30                            | 0.00  | 1669.00                           |
|                     | 3 x 300 + 3x150/3 18/30 kV                          | 96.70                            | 0.00  | 1742.50                           |
|                     | 3 x 300 + 3x150/3 12/20 kV                          | 89.00                            | 0.00  | 1590.00                           |