



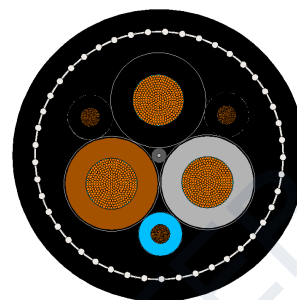
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrial cable

# NTSKCGWOU LOADER CABLE

0.6/1 (1.2) kV flexible loader cable



### APPLICATION

For connection of material handling machines such as loaders in mines and other demanding industrial applications. Suitable for flexible operation where high mechanical strength, abrasion resistance and reliable control-core performance are required.

### CONSTRUCTION

| Parameter           | Value                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Conductors          | Annealed flexible stranded tinned copper conductor, class 5 according to IEC 60228                                        |
| Separator           | Suitable semi-conductive tape between conductor and insulation when required                                              |
| Insulation          | Ethylene-propylene rubber compound type 3GI3                                                                              |
| Pilot cores         | Tinned copper conductors class 5 with EPR insulation                                                                      |
| Earth core          | Tinned copper conductor class 5 covered with semi-conductive compound                                                     |
| Cable core          | Three power cores, one earth core and two pilot cores laid up on cradle separator with aramid reinforcement in the centre |
| Core covering       | Semi-conductive layer over the cable core                                                                                 |
| Inner sheath        | Synthetic thermosetting rubber compound type 5GM5                                                                         |
| Anti-torsion braid  | Polyamide thread braid between inner and outer sheath layers                                                              |
| Outer sheath        | Synthetic thermosetting rubber compound type 5GM5                                                                         |
| Outer jacket colour | Black                                                                                                                     |

### CHARACTERISTICS

- Excellent tear, impact, abrasion and torsion resistance.
- Flame retardant, oil resistant, weather resistant and suitable for UV, ozone and moisture exposure.
- Temperature range from -50 deg C to +90 deg C.
- Minimum bending radius:  $4 \times D$ , where D is cable diameter.



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### DIMENSIONS AND ELECTRICAL DATA

| Number of Cores<br>Cross-section | Range Overall<br>Diameter<br>mm | Approx.<br>Weight<br>kg/km | Resistance<br>at 20 deg C<br>ohm/km | Reactance<br>at 50 Hz<br>ohm/km | Capacitance<br>uF/km | Short Circuit<br>Capacity<br>kA | Current<br>Capacity<br>A |
|----------------------------------|---------------------------------|----------------------------|-------------------------------------|---------------------------------|----------------------|---------------------------------|--------------------------|
| 3x16+1x6+2x6P                    | 32.0-32.3-35.0                  | 1526                       | 1.24                                | 0.089                           | 0.39                 | 2.3                             | 99                       |
| 3x25+1x6+2x6P                    | 37.0-37.4-40.0                  | 2097                       | 0.795                               | 0.088                           | 0.42                 | 3.6                             | 131                      |
| 3x50+1x10+2x10P                  | 44.0-45.1-50.0                  | 3357                       | 0.565                               | 0.082                           | 0.32                 | 6.4                             | 202                      |

### PHYSICAL PARAMETERS

| Parameter                        | Value                                                                         |
|----------------------------------|-------------------------------------------------------------------------------|
| Outer sheath tensile strength    | Minimum 15 N/mm <sup>2</sup>                                                  |
| Outer sheath elongation at break | Minimum 300%                                                                  |
| Ageing in air oven               | 100 deg C for 168 h; tensile strength change +/-30%, elongation change +/-40% |
| Ageing in oil                    | 100 deg C for 24 h; tensile strength and elongation change +/-40%             |
| Tear resistance                  | Minimum 30 N/mm                                                               |

### ELECTRICAL AND OPERATING PARAMETERS

| Parameter                           | Value                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| Design standard                     | DIN VDE 0250 Part 813                                                                     |
| Current-carrying capacity           | According to DIN VDE 0298 Part 4                                                          |
| Rated voltage U <sub>0</sub> /U     | 0.6/1 (1.2) kV                                                                            |
| Voltage test                        | Tested between power cores, earth conductor and screen according to DIN VDE 0250 Part 813 |
| Ambient temperature                 | -50 deg C to +90 deg C for fixed installation                                             |
| Maximum conductor temperature       | +90 deg C                                                                                 |
| Short-circuit conductor temperature | +250 deg C                                                                                |
| Smallest admissible bending radius  | 4 x D, where D is cable diameter                                                          |
| Tensile load                        | Up to 20 N/mm <sup>2</sup>                                                                |
| Resistance to oil                   | According to DIN VDE 0473 / DIN VDE 0282 oil test requirements                            |
| Weather resistance                  | Resistant to ozone, UV and moisture                                                       |

Values are nominal and subject to standard manufacturing tolerances.

### CERTIFICATIONS



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