



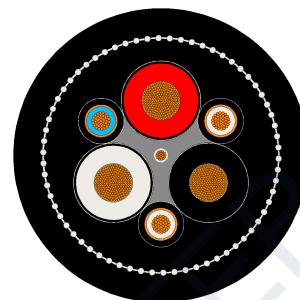
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

NTSKCGWOU KON 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 wires stranded on reinforcing yarns with EPR insulation
Earth core	Wrap of tinned copper strands covered with a semi-conductive layer
Cable core	Three power cores and three concentric pilot / earth 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.
- Bending radius: $2.3 \times D$, where D is cable diameter.



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DIMENSIONS AND ELECTRICAL DATA

Number of Cores Cross-section	Range Overall Diameter mm	Approx. Weight kg/km	Resistance at 20 deg C ohm/km	Reactance at 50 Hz ohm/km	Capacitance uF/km	Short Circuit Capacity kA	Current Capacity A
3x16+3(1.5KON+16/3KON)	37.3-42.0	2060	1.24	0.089	0.39	2.3	99
3x25+3(1.5KON+25/3KON)	39.1-44.0	2428	0.795	0.088	0.42	3.6	131
3x50+3(1.5KON+25/3KON)	45.1-54.0	3467	0.565	0.083	0.32	6.4	202

PHYSICAL PARAMETERS

Parameter	Value
Outer sheath tensile strength	Minimum 15 N/mm ²
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 ₀ /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 ²
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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