

## NTSKCGERLOEU Medium-Voltage Coal Cutter Cable

### Applications

These cables are used for the connection of mobile electrical equipment in underground mines, e.g. for coal-cutting machines, especially for the use in belt chains with extreme bending loads under low tensile stress.

### Standards

VDE 0250 Part 813

### Construction



**Conductors:** Flexible stranded tinned copper conductor.

**Insulation:** Heat resistant 3GI3 rubber based on EPR.

**Outer Conductor Layer** (for 3.6/6kV): Easy strippable outer conductive layer.

**Pilot Cores:** Copper/steel conductor capable of expansion and compression with EPR rubber insulation.

**Earth Conductor:** Spiral of tinned copper wires and a conductive tape.

**Inner Sheath:** 2 layer design, semi conductive rubber + Rubber type 5GM5.

**Armour:** Spiral of steel wires, embedded in the outer sheath, fiberglass tape which prevents sheath exchanging.

**Outer Sheath:** Rubber type 5GM5, abrasion and tear resistant, oil resistant and flame retardant.

### Dimensions and Weight

#### 1.8/3 (3.6) kV

Number of Cores × Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. × mm <sup>2</sup>	mm	mm	kg/km
3×35+3×(1.5ST+25/3)+UEL	44.0	49.0	3900
3×50+3×(1.5ST+25/3)+UEL	50.0	55.0	5100
3×70+3×(1.5ST+35/3)+UEL	52.0	56.0	6200
3×95+3×(1.5ST+50/3)+UEL	58.0	62.0	7500
3×120+3×(1.5ST+70/3)+UEL	64.0	70.0	9350

#### 3.6/6 (7.2) kV

Number of Cores × Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. × mm <sup>2</sup>	mm	mm	kg/km

$3 \times 35 + 3 \times (1.5ST + 25/3) + UEL$	49.0	54.0	5800
$3 \times 50 + 3 \times (1.5ST + 25/3) + UEL$	56.0	61.0	6100
$3 \times 70 + 3 \times (1.5ST + 35/3) + UEL$	57.0	62.0	6700
$3 \times 95 + 3 \times (1.5ST + 50/3) + UEL$	62.0	66.0	8000
$3 \times 120 + 3 \times (1.5ST + 70/3) + UEL$	67.0	71.0	10200