

NTSCGECWOU 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 bretby chains with extreme bending loads under low tensile stress.

Standards

VDE 0250 Part 813

Construction



System1 (1.8/3kV or 3.6/6kV): Flexible stranded tinned copper conductor with heatresistant3GI3 rubber based on EPR, easy strippable outer conductive layer.

System2 (0.6/1kV): Flexible stranded tinned copper conductor with heatresistant3GI3 rubber based on EPR.

Earth Conductor: Spiral of tinned copper.

Center Bundle: Control and pilot cores with copper/steel conductors capable of expansion and compression, EPR insulation, optional with fiber optics, covered with tinned copper wires semi conductive rubber sheath.

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

1.8/3kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No.×mm ²	mm	mm	kg/km
3×50+3×(35+35/3)+2×(2×0.75ST)+2×0.75UEL	62.0	66.0	7210
3×70+3×(50+50/3)+2×(2×0.75ST)+2×0.75UEL	64.0	68.0	8200
3×95+3×(70+70/3)+2×(2×0.75ST)+2×0.75UEL	74.0	78.0	10300

3.6/6kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
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	Diameter	Diameter	Weight
No. x mm²	mm	mm	kg/km
3×35+3×(35+35/3)+2×(2×0.75ST)+2×0.75UEL	66.0	72.0	7600
3×50+3×(50+50/3)+2×(2×0.75ST)+2×0.75UEL	69.0	75.0	9200
3×70+3×(70+70/3)+2×(2×0.75ST)+2×0.75UEL	76.0	81.0	11150
3×95+3×(95+95/3)+2×(2×0.75ST)+2×0.75UEL	85.0	90.0	13300