

## N3GHSSYCY Medium-Voltage Cable

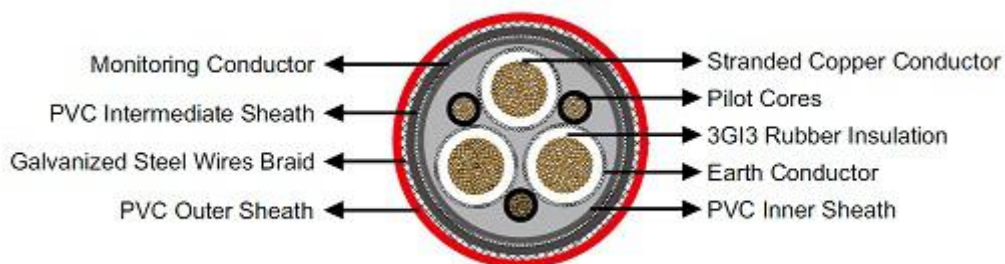
### Applications

These cables are used for the connection of mobile operating equipment, in mines and underground excavations with hazardous environments, in stationary operation, e.g. high-voltage transformers in mining and tunnelling.

### Standards

#### VDE 0250 Part 605

#### Construction



**Conductors:** Flexible stranded copper conductor, class 5 according to DIN VDE 0295.

**Insulation:** EPR compound type 3GI3.

**Electrical Field Control:** Inner and outer semiconductive layer of semiconductive rubber, for 6 kV outer semiconductive layer only.

**Pilot Cores:** Stranded copper conductor with EPR insulation.

**Earth Conductor:** Spiral of copper wires over the outer semi-conductive layer of the cores.

**Inner Sheath:** PVC compound type YM5.

**Monitoring Conductor:** Conductive tape serving and overall concentric Cu wire spinning.

**Intermediate Sheath:** PVC compound type YM5.

**Armour:** Braid of galvanized steel wires.

**Outer Sheath:** PVC compound type YM5.

### Dimensions and Weight

#### 3.6/6kV

Number of Cores × Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. × mm <sup>2</sup>	mm	mm	kg/km
3×25+3×16/3E+3×2.5ST+UEL	49.0	53.0	4190
3×35+3×16/3E+3×2.5ST+UEL	52.0	56.0	4800
3×50+3×25/3E+3×2.5ST+UEL	55.0	59.0	5600
3×70+3×35/3E+3×2.5ST+UEL	59.0	63.0	6650
3×95+3×50/3E+3×2.5ST+UEL	63.0	67.0	7940

#### 6/10kV

Number of Cores × Nominal Cross	Minimum Overall	Maximum Overall	Nominal
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Section	Diameter	Diameter	Weight
No. xmm <sup>2</sup>	mm	mm	kg/km
3×25+3×16/3E+3×2.5ST+UEL	55.0	58.0	5300
3×35+3×16/3E+3×2.5ST+UEL	58.0	61.0	5910
3×50+3×25/3E+3×2.5ST+UEL	61.0	65.0	6790
3×70+3×35/3E+3×2.5ST+UEL	65.0	69.0	7860
3×95+3×50/3E+3×2.5ST+UEL	68.0	73.0	9180

## 8.7/15kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. xmm <sup>2</sup>	mm	mm	kg/km
3×25+3×16/3E+3×2.5ST+UEL	58.0	62.0	6810
3×35+3×16/3E+3×2.5ST+UEL	61.0	65.0	7850
3×50+3×25/3E+3×2.5ST+UEL	64.7	68.7	9130
3×70+3×35/3E+3×2.5ST+UEL	67.9	71.9	10750
3×95+3×50/3E+3×2.5ST+UEL	72.4	76.4	12290

## 12/20kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. xmm <sup>2</sup>	mm	mm	kg/km
3×25+3×16/3E+3×2.5ST+UEL	62.3	66.3	8790
3×35+3×16/3E+3×2.5ST+UEL	65.3	69.3	9930
3×50+3×25/3E+3×2.5ST+UEL	69.0	73.0	11360
3×70+3×35/3E+3×2.5ST+UEL	72.2	76.2	13100
3×95+3×50/3E+3×2.5ST+UEL	76.8	80.8	14750