



### NTSCGEWUEU Medium Voltage Flexible Cable For Use In Water

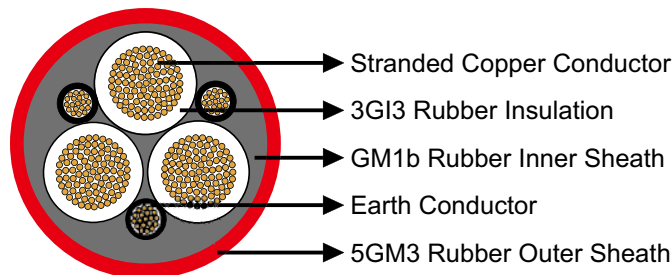
#### » Applications

These cables are designed for operation in water for connection to dredgers, floating docks, pumps, etc., in applications where high mechanical stresses are to be expected, also suitable for use in sewage, salt water and brackish water at water depths of up to 500 m.

#### » Standards

VDE 0250 Part 813

#### » Construction



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

**Inner Conductor Layer:** Semiconductive layer.

**Insulation:** Rubber type 3GI3.

**Outer Conductor Layer:** Semiconductive layer.

**Earth Conductor:** Split into three in the outer interstices or Individual concentric distributed over core insulating coverings (coding.../3E) or incorporated as a fourth core.

**Inner Sheath:** Rubber compound type GM1b with characteristics of waterproof and prevention of formation of water bubbles.

**Outer Sheath:** Waterproof rubber type 5GM3.

# Caledonian Mining Cables

## Cables for Open-cast Mining



### » Dimensions and Weight

#### 1.8/3kV

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+3×25/3	38.6	41.6	2480
3×35+3×25/3	42.5	45.5	3090
3×50+3×25/3	46.0	49.0	3750
3×70+3×35/3	49.2	52.2	4620
3×95+3×50/3	57.2	61.2	6200
3×120+3×70/3	60.9	64.9	7390
3×150+3×70/3	66.3	70.3	8830
3×185+3×95/3	69.4	73.4	10170
3×25+3×16/3E	41.3	44.3	1180
3×35+3×16/3E	43.9	46.9	1650
3×50+3×25/3E	47.8	50.8	2310
3×70+3×35/3E	52.5	56.5	3220
3×95+3×50/3E	59.4	63.4	4335
3×120+3×70/3E	65.5	69.5	5480
3×150+3×70/3E	69.2	73.2	6800
3×185+3×95/3E	72.2	76.2	8375

#### 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
3×16/16	47.0	52.0	3240
3×25/25	50.0	55.0	3870
3×35/35	55.0	55.0	4780
3×50/50	59.0	64.0	5700
3×70/70	64.0	70.0	7000
3×25+3×25/3	44.7	47.7	3120
3×35+3×25/3	47.3	50.3	3600
3×50+3×25/3	52.2	56.2	4560
3×70+3×35/3	55.5	59.5	5470
3×95+3×50/3	59.8	63.8	6570
3×120+3×70/3	65.3	69.3	8090
3×150+3×70/3	68.9	72.9	9250
3×185+3×95/3	72.0	76.0	10600
3×25+3×16/3E	46.0	49.0	3160
3×35+3×16/3E	48.6	51.6	3640
3×50+3×25/3E	54.0	58.0	4600
3×70+3×35/3E	57.2	61.2	5510
3×95+3×50/3E	63.8	67.8	6610



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Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×120+3×70/3E	68.1	72.1	8130
3×150+3×70/3E	71.8	75.8	9290
3×185+3×95/3E	76.6	80.6	10840

### 6/10 kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×16/16	49.0	54.0	3450
3×25/25	54.0	59.0	4350
3×35/35	57.0	62.0	5050
3×25+3×25/3	46.4	49.4	3320
3×35+3×25/3	49.0	52.0	3810
3×50+3×25/3	54.0	58.0	4780
3×70+3×35/3	57.2	61.2	5700
3×95+3×50/3	61.5	65.5	6830
3×120+3×70/3	67.0	71.0	8360
3×150+3×70/3	70.7	74.7	9530
3×185+3×95/3	73.7	77.7	10890
3×25+3×16/3E	47.8	50.8	3360
3×35+3×16/3E	51.9	55.9	3850
3×50+3×25/3E	55.5	59.5	4820
3×70+3×35/3E	59.0	63.0	5740
3×95+3×50/3E	65.5	69.5	6870
3×120+3×70/3E	69.8	73.8	8400
3×150+3×70/3E	73.5	77.5	9570
3×185+3×95/3E	78.3	82.3	10930

### 8.7/15 kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×25+3×25/3	52.7	56.7	4050
3×35+3×25/3	55.3	59.3	4650
3×50+3×25/3	58.7	62.7	5390
3×70+3×35/3	63.8	67.8	6740
3×95+3×50/3	68.1	72.1	7870
3×120+3×70/3	71.7	75.7	9150
3×150+3×70/3	77.2	81.2	10770
3×185+3×95/3	80.2	84.2	12310
3×25+3×16/3E	54.0	58.0	4090
3×35+3×16/3E	56.6	60.6	4690
3×50+3×25/3E	60.3	64.3	5430
3×70+3×35/3E	65.5	69.5	6780

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## Cables for Open-cast Mining



Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×95+3×50/3E	70.3	74.3	7910
3×120+3×70/3E	76.4	80.4	9190
3×150+3×70/3E	80.1	84.1	10810
3×185+3×95/3E	83.1	87.1	12350

### 12/20 kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×25/25	66.0	72.0	6140
3×35/35	69.0	75.0	6900
3×25+3×25/3	57.0	61.0	4690
3×35+3×25/3	59.6	63.6	5260
3×50+3×25/3	64.8	68.8	6380
3×70+3×35/3	68.1	72.1	7370
3×95+3×50/3	72.4	76.4	8600
3×120+3×70/3	77.9	81.9	10290
3×150+3×70/3	81.5	85.5	11560
3×185+3×95/3	84.3	89.3	13000
3×25+3×16/3E	58.3	62.3	4730
3×35+3×16/3E	60.9	64.9	5300
3×50+3×25/3E	66.4	70.4	6420
3×70+3×35/3E	69.8	73.8	7410
3×95+3×50/3E	76.4	80.4	8640
3×120+3×70/3E	80.7	84.7	10330
3×150+3×70/3E	84.2	89.2	11600
3×185+3×95/3E	89.0	94.0	13040

### 14/25 kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×50/50	81.0	88.0	9600
3×70/70	86.0	93.0	11100
3×95/95	92.0	99.0	13020
3×25+3×25/3	64.4	68.4	5860
3×35+3×25/3	67.0	71.0	8390
3×50+3×25/3	70.4	74.4	7220
3×70+3×35/3	73.7	77.7	8720
3×95+3×50/3	79.8	83.8	9950
3×120+3×70/3	83.5	87.5	11380
3×150+3×70/3	88.7	93.7	13120
3×185+3×95/3	91.8	96.8	14770
3×25+3×16/3E	65.7	69.7	5900



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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+3×16/3E	68.3	72.3	8430
3×50+3×25/3E	72.0	76.0	7260
3×70+3×35/3E	77.2	81.2	8760
3×95+3×50/3E	82.0	86.0	9990
3×120+3×70/3E	87.9	92.9	11420
3×150+3×70/3E	91.6	96.6	13160
3×185+3×95/3E	94.6	99.6	14810

### 18/30kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×70/70	93.0	100.0	12780
3×95/95	97.0	104.0	14350
3×25+3×25/3	69.6	73.6	7010
3×35+3×25/3	72.2	76.2	7440
3×50+3×25/3	77.4	81.4	8590
3×70+3×35/3	80.7	84.7	9670
3×95+3×50/3	84.8	89.8	11010
3×120+3×70/3	90.2	95.2	12890
3×150+3×70/3	93.9	98.9	14260
3×185+3×95/3	96.8	102.0	15780
3×25+3×16/3E	70.9	74.9	7050
3×35+3×16/3E	73.5	77.5	7490
3×50+3×25/3E	79.0	83.0	8630
3×70+3×35/3E	82.4	86.4	9710
3×95+3×50/3E	88.8	93.8	11050
3×120+3×70/3E	93.1	98.1	12930
3×150+3×70/3E	96.8	101.8	14300
3×185+3×95/3E	101.6	106.6	15820

### 20/35 kV

Number of Cores×Nominal Cross Section	Minimum Overall Diameter	Maximum Overall Diameter	Nominal Weight
No. ×mm <sup>2</sup>	mm	mm	kg/km
3×70/70	102.0	110.0	14950
3×95/95	106.0	114.0	16540
3×95+3×50/3	95.0	102.0	13670
3×120+3×70/3	101.0	109.0	15760