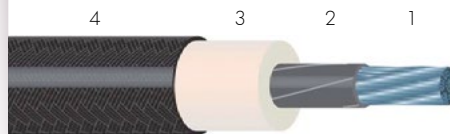


# SILICOUL® ALU FLEX

## 13.8 kV

### -60 °C to +180 °C

SILICONE INSULATED MEDIUM VOLTAGE  
POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible aluminium core.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

### Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
  - Power cabinets.

### Options

- Electrical shielding:
  - > Tin-plated copper braid (ref. SILICOUL® ALU FLEX SCR 13.8 kV): contact us.
  - Outer flexible armour:
    - > Galvanised steel braid (ref. SILICOUL® ALU FLEX BG 13.8 kV): contact us.
    - > Stainless steel braid (ref. SILICOUL® ALU FLEX BI 13.8 kV): contact us.
  - Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ALU FLEX 13.8 kV: contact us.
    - Other colours: contact us.
  - Other nominal cross-sections: contact us.
- Other options and/or combinations of the options outlined above: contact us.

### Characteristics

#### General

- Continuous operating temperature: -60 °C to +180 °C.
- Good resistance to oil and hydrocarbons.
- Good mechanical strength.

#### Electrical

- Rated voltage: 13.8 kV.
- Test voltage: 30 kV.

### Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colour: black.

### SILICOUL® ALU FLEX 13.8 kV

Flexible aluminium core			INSULATED WIRE OR CABLE	
Nominal cross-section (mm <sup>2</sup> )	Maximal diameter of strands (mm)	Maximum linear resistance at 20 °C (Ω/km)	Nominal diameter (mm)	Approximate linear weight (kg/km)
2.5	0.42	12.7	10.1	93
4	0.42	7.85	10.9	109
6	0.42	5.23	11.8	129
10	0.52	3.03	12.8	159
16	0.41	1.91	13.8	189
25	0.41	1.20	15.8	246
35	0.41	0.868	17.3	298
50	0.41	0.641	19.7	384
70	0.51	0.443	21.5	465
95	0.51	0.320	23.5	564
120	0.51	0.253	25.6	684
150	0.51	0.206	28.4	866
185	0.51	0.164	30.0	971
240	0.51	0.125	33.4	1231
300	0.51	0.100	35.6	1415
400	0.51	0.0778	39.8	1786

For this product, please contact:

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**omerin**  
LES CABLES DE L'EXTREME

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.  
For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.  
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