

# SILICOUL® ST PUR 3.7 kV

-40 °C to +150 °C

SILICONE INSULATED AND POLYURETHANE SHEATHED  
MEDIUM VOLTAGE POWER CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Facultative separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Sheath: Polyurethane thermoplastic elastomer.

## Approvals - standards

- Compliance with the standard: IEC 60228.

## Applications

- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
  - Cabling for rotating machines: motors, alternators, generators.
  - Cabling for static machines: transformers, inductors, choppers.
  - Power cabinets.

## Options

- Extra-flexible tin-plated copper core – class 6 as per IEC 60228: contact us.
- Flexible or extra-flexible bare copper, silver-plated or nickel-plated copper core – class 5 or 6 as per IEC 60228: contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ST PUR 3.7 kV: contact us.
  - Other markings: 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: -40 °C to +150°C.
- Excellent resistance to oil and hydrocarbons.
- Good resistance to humidity.
- Excellent mechanical strength.

### Electrical

- Rated voltage: 3.7 kV.
- Test voltage: 10 kV.

## Standard products

- Standard insulation colour: white.
- Standard sheath colour: brown.
- Standard marking: OMERIN – SILICOUL ST PUR 3.7 KV – {cross-section/mm<sup>2</sup>}

## SILICOUL® ST PUR 3.7 kV

### Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
1.5	30 x 0.25	13.7
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210
120	608 x 0.50	0.164
150	756 x 0.50	0.132
185	944 x 0.50	0.108
240	1221 x 0.50	0.0817
300	1525 x 0.50	0.0654
400	2037 x 0.50	0.0495

### INSULATED WIRE OR CABLE

Nominal diameter (mm)	Approximate linear weight (kg/km)
6.4	49
6.9	63
7.7	85
8.6	112
10.0	162
11.4	227
13.4	339
14.8	436
17.1	610
18.8	804
21.6	1056
23.6	1314
26.0	1640
27.4	1944
31.4	2579
33.6	3128
37.7	4025

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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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