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SILICOUL®
HIGH TEMPERATURE MEDIUM VOLTAGE
POWER CABLES

omerin
LES CABLES DE L'EXTREME



INDUSTRIE



- The world's leading manufacturer of silicone-insulated wires and cables
- Europe's leading manufacturer of glass-yarn braids
- France's leading manufacturer of fire safety cables

The Omerin group has been producing electrical cables for extreme conditions since 1959



Omerin offers a wide range of high-performance products covering a large number of applications in very diverse industries, including the electrothermal construction, electromechanical, chemical, nuclear energy, railway, automotive, naval, aerospace, heavy industry, power plant and other sectors.

Our product range is further extended by varnished, impregnated and treated braided insulating sleeveings, door seals for ovens, fireproof sleeveings, thermocouple, extension and compensation cables as well as industrial braids.

At Omerin, we use our know-how and technology to develop increasingly high-performance products.

Our expertise is recognized in over 120 countries.



Men and women at your service

The technical expertise of our teams is at your disposal, providing responses and solutions to all your requirements.

Our Methods, Quality and Research and Development Departments work permanently together with the aim of constantly improving our products and processes.

All our staff subscribe to this approach with their involvement and constant self-checking at all stages of production.

List of all the available catalogues:

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET 1
SECTION I: CROSS LINKED ELASTOMERS

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET 2
SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS

HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET 3
SECTION III: COMPOSITE INSULATIONS

FIRE RESISTANT SAFETY CABLES 4

CABLE SOLUTIONS FOR ROLLING STOCK 5

CABLES FOR POWER STATIONS AND HIGH-RISK SITES 6

MARINE CABLES 7

PYROMETRY CABLES 8

BRAIDED INSULATING SLEEVINGS 9

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES 10

CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY 11

PACKAGING AND TECHNICAL DATA

Ultimately, this catalogue is the result of the passionate endeavours of an entire team, who have displayed great talent in writing it for you.

It is designed to be a simple and concise working tool for you, serving as a reference document that is able to meet the majority of your needs.

This catalogue, as well as ten others from our collection are available online with real time updates and much more information at

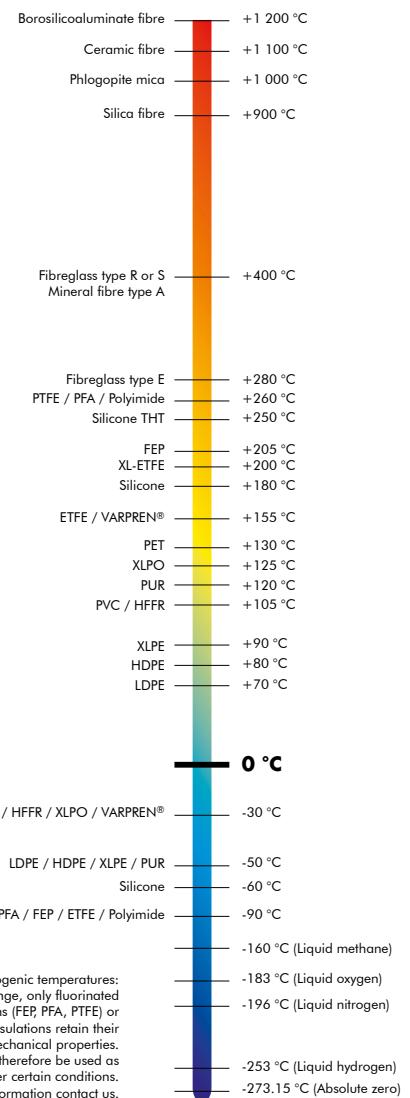
www.omerin.com

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| | |
|-----------------------|---|
| BIO-HABITAT® | Wires and cables for a home without electromagnetic interference |
| CERAFIL® | Miniature ceramic insulated wires for very high temperatures |
| COAXRAIL® | Coaxial cables for railway industry |
| COAXTHERM® | High temperature coaxial cables |
| COUPLIX® | Pyrometry cables (thermocouples, extension, compensation cables) |
| DATARAIL® | Data cables for the railway industry |
| ELECTROAIR® | Aerospace & Defence wires and cables |
| ENERSYL® | Electrical cables for power station and high risk sites |
| FLEXBAT® | Extra flexible battery cables |
| LUMIPLAST® | Wires and cables for lighting systems |
| METALTRESSE® | High performance metallic braids |
| MINOROC® | Very high tensile strength synthetic cables |
| MULTIMAX® | Power, control and instrumentation cables for the marine industry |
| MULTI-VX® | Hybrid data and power cables |
| ODIOSIS® | Sound, amplification and loudspeaker cables |
| OILPLAST® | Cables for industrial environments and intrinsically safe system |
| OMBILIFLEX® | High performance special multi-function cables |
| PLASTHERM® | Special thermoplastic insulated wires and cables |
| POWER CONNECT® | High performance power cords |
| PROFIPLAST® | Thermoplastic insulated wires and cables |
| PYRISOL® | Fire resistant power cables for safety circuits |
| PYRITEL® | Fire resistant communication cables for safety circuits |
| SILIBOX® | Wire and cables cardboard box packaging system |
| SILICABLE® | Special high temperature wires and cables |
| SILICOUL® | Low and medium voltage class H (180°C) power cables |
| SILIFLAM® | Very high safety cables for extreme temperatures |
| SILIFLON® | Fluoropolymer insulated high temperature wires and cables |
| SILIGAINE® | Braided insulating sleevings |
| SILIRAD® | Electron beam cross-linked cables |
| SILITUBE® | Braided or extruded tubes |
| SOLARPLAST® | Power cables for photovoltaic solar panels |
| SONDIX® | Platinum resistance temperature sensors connection cables |
| SPIRFLEX® | High performance spiral cables |
| TEXALARM® | Cables for safety systems and fire alarms |
| TS CABLES® | Coaxial and data cables |
| TS COM 900® | Telephonic cables for very speed reception |
| TS LAN® | Copper LAN cables |
| TWINLINK® | High temperature controlled impedance twisted pair cables |
| TWINPLAST® | Extra flexible cables for battery chargers or jump starters |
| VARPREN® | Wires and cables with special cross-linked Varpren® insulation |
| VEROX® | Fiberglass braided seals |
| VIDEOCOAX® | Analog and digital video cables |



Thermal classification of insulations



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| 10102 | SILICOUL® 3.7 kV |
| 10103 | SILICOUL® 6.6 kV |
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| 10107 | SILICOUL® Style 3663 - 7.2 kV |
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| 10112 | SILICOUL® ALU FLEX 13.8 kV |
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HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® 1.1 kV

-60°C to +180°C

Approvals - standards

- Bureau VERITAS approval certificates: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60228, IEC 60332-1-1/2, IEC 60332-3-22 and IEC 60754-2.
- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/353/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A.
- Non-fire propagating according to NF C 32-070 test C1 for cross-sections greater than 6mm² (test for smaller cross-sections on request).

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- 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.
 - Without reinforcing braid (ref. SILICOUL® ST 1.1 KV): contact us.
 - Varnished synthetic fibre reinforcing braid (ref. SILICOUL® RI 1.1 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® BG 1.1 KV): contact us.
 - > Stainless steel braid (ref. SILICOUL® BI 1.1 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 1.1 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.



SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID

4 3 2 1



- Flexible tin-plated copper core - class 5 as per IEC 60228.
- Optional separating tape.
- Insulation: Silicone rubber.
- Reinforcement: Coated synthetic fibre braid.

Characteristics
General

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colour: yellow.
- Standard marking: OMERIN - SILICOUL 1.1 KV - IEC 60331 - IEC 60332-1 - IEC 60332-3-22 – {cross-section} No printing on sections 1.5 mm² to 6 mm²

SILICOUL® 1.1 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|-----------------------|-----------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 3.8 | 23.5 |
| 2.5 | 50 x 0.25 | 8.21 | 4.3 | 34.0 |
| 4 | 56 x 0.30 | 5.09 | 4.9 | 48.9 |
| 6 | 84 x 0.30 | 3.39 | 6.0 | 71.7 |
| 10 | 80 x 0.40 | 1.95 | 7.2 | 117 |
| 16 | 126 x 0.40 | 1.24 | 8.6 | 174 |
| 25 | 196 x 0.40 | 0.795 | 10.4 | 268 |
| 35 | 276 x 0.40 | 0.565 | 11.9 | 360 |
| 50 | 396 x 0.40 | 0.393 | 14.1 | 512 |
| 70 | 360 x 0.50 | 0.277 | 15.9 | 686 |
| 95 | 485 x 0.50 | 0.210 | 18.2 | 914 |
| 120 | 608 x 0.50 | 0.164 | 20.7 | 1174 |
| 150 | 756 x 0.50 | 0.132 | 23.2 | 1457 |
| 185 | 944 x 0.50 | 0.108 | 25.2 | 1819 |
| 240 | 1221 x 0.50 | 0.0817 | 29.2 | 2448 |
| 300 | 1525 x 0.50 | 0.0654 | 31.6 | 2992 |
| 400 | 2037 x 0.50 | 0.0495 | 34.6 | 3837 |

For this product, please contact:

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OMERIN
LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® 3.7 kV

-60°C to +180°C



Approvals - standards

- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A.
- Non-fire propagating according to NF C 32-070 test C1 for cross-sections greater than 6mm² (test for smaller cross-sections on request).

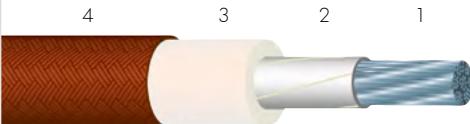
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- 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.
 - Without reinforcing braid (ref. SILICOUL® ST 3.7 KV): contact us.
 - Varnished synthetic fibre reinforcing braid (ref. SILICOUL® RI 3.7 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® BG 3.7 KV): contact us.
 - > Stainless steel braid (ref. SILICOUL® BI 3.7 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 3.7 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.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- Flexible tin-plated copper core - class 5 as per IEC 60228.
- Optional separating tape.
- Insulation: Silicone rubber.
- Reinforcement: Coated synthetic fibre braid.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

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

SILICOUL® 3.7 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|--|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 30 x 0.25 | 13.7 | 5.5 | 38.3 |
| 2.5 | 50 x 0.25 | 8.21 | 6.3 | 51.7 |
| 4 | 56 x 0.30 | 5.09 | 6.9 | 68.7 |
| 6 | 84 x 0.30 | 3.39 | 7.8 | 94.3 |
| 10 | 80 x 0.40 | 1.95 | 9.0 | 143 |
| 16 | 126 x 0.40 | 1.24 | 10.2 | 201 |
| 25 | 196 x 0.40 | 0.795 | 11.8 | 296 |
| 35 | 276 x 0.40 | 0.565 | 13.2 | 392 |
| 50 | 396 x 0.40 | 0.393 | 15.3 | 545 |
| 70 | 360 x 0.50 | 0.277 | 17.0 | 720 |
| 95 | 485 x 0.50 | 0.210 | 20.2 | 973 |
| 120 | 608 x 0.50 | 0.164 | 22.2 | 1233 |
| 150 | 756 x 0.50 | 0.132 | 24.4 | 1519 |
| 185 | 944 x 0.50 | 0.108 | 25.8 | 1856 |
| 240 | 1221 x 0.50 | 0.0817 | 29.6 | 2470 |
| 300 | 1525 x 0.50 | 0.0654 | 31.8 | 3004 |
| 400 | 2037 x 0.50 | 0.0495 | 35.7 | 3909 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® 6.6 kV

-60°C to +180°C



Approvals - standards

- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/354/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A.
- Non-fire propagating according to NF C 32-070 test C1 for cross-sections greater than 6mm² (test for smaller cross-sections on request).

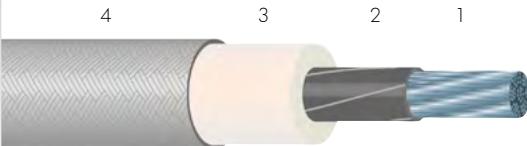
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- 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.
 - Without reinforcing braid (ref. SILICOUL® ST 6.6 KV): contact us.
 - Varnished synthetic fibre reinforcing braid (ref. SILICOUL® RI 6.6 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® BG 6.6 KV): contact us.
 - > Stainless steel braid (ref. SILICOUL® BI 6.6 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 6.6 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.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- Flexible tin-plated copper core - class 5 as per IEC 60228.
- Semi-conductor tape(s).
- Insulation: Silicone rubber.
- Reinforcement: Coated synthetic fibre braid.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 6.6 kV.
- Test voltage: 15 kV.

Standard products

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

SILICOUL® 6.6 kV

Flexible core • class 5 as per IEC 60228

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 7.7 | 68.1 |
| 4 | 56 x 0.30 | 5.09 | 8.3 | 86.2 |
| 6 | 84 x 0.30 | 3.39 | 9.2 | 114 |
| 10 | 80 x 0.40 | 1.95 | 10.4 | 166 |
| 16 | 126 x 0.40 | 1.24 | 11.6 | 227 |
| 25 | 196 x 0.40 | 0.795 | 13.1 | 325 |
| 35 | 276 x 0.40 | 0.565 | 14.6 | 425 |
| 50 | 396 x 0.40 | 0.393 | 16.7 | 583 |
| 70 | 360 x 0.50 | 0.277 | 18.3 | 759 |
| 95 | 485 x 0.50 | 0.210 | 19.9 | 995 |
| 120 | 608 x 0.50 | 0.164 | 23.0 | 1262 |
| 150 | 756 x 0.50 | 0.132 | 24.1 | 1555 |
| 185 | 944 x 0.50 | 0.108 | 26.9 | 1904 |
| 240 | 1221 x 0.50 | 0.0817 | 30.7 | 2522 |
| 300 | 1525 x 0.50 | 0.0654 | 32.9 | 3059 |
| 400 | 2037 x 0.50 | 0.0495 | 37.2 | 3999 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® 13.8 kV
-60°C to +180°C**Approvals - standards**

- Lloyd's Register approval certificates: compliance with the tests described as per standards IEC 60228, IEC 60092-350/354/360, IEC 60754-2, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60331-11/21.
- Non-fire propagating according to NF C 32-070 test C1 for cross-sections greater than 6mm² (test for smaller cross-sections on request).

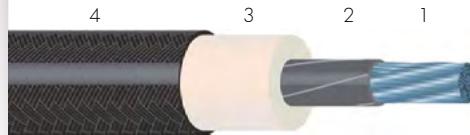
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- 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.
 - Without reinforcing braid (ref. SILICOUL® ST 13.8 KV): contact us.
 - Varnished synthetic fibre reinforcing braid (ref. SILICOUL® RI 13.8 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® BG 13.8 KV): contact us.
 - > Stainless steel braid (ref. SILICOUL® BI 13.8 KV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 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.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- Flexible tin-plated copper core - class 5 as per IEC 60228.
- Semi-conductor tape(s).
- Insulation: Silicone rubber.
- Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

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

Standard products

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

SILICOUL® 13.8 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 10.2 | 107 |
| 4 | 56 x 0.30 | 5.09 | 11.0 | 132 |
| 6 | 84 x 0.30 | 3.39 | 11.8 | 162 |
| 10 | 80 x 0.40 | 1.95 | 13.1 | 224 |
| 16 | 126 x 0.40 | 1.24 | 14.2 | 287 |
| 25 | 196 x 0.40 | 0.795 | 15.7 | 390 |
| 35 | 276 x 0.40 | 0.565 | 17.2 | 496 |
| 50 | 396 x 0.40 | 0.393 | 18.9 | 649 |
| 70 | 360 x 0.50 | 0.277 | 21.3 | 847 |
| 95 | 485 x 0.50 | 0.210 | 23.2 | 1079 |
| 120 | 608 x 0.50 | 0.164 | 25.2 | 1349 |
| 150 | 756 x 0.50 | 0.132 | 27.9 | 1672 |
| 185 | 944 x 0.50 | 0.108 | 29.3 | 2017 |
| 240 | 1221 x 0.50 | 0.0817 | 33.1 | 2650 |
| 300 | 1525 x 0.50 | 0.0654 | 35.5 | 3209 |
| 400 | 2037 x 0.50 | 0.0495 | 39.6 | 4152 |

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63600 Ambert
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OMERIN
LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL®

Style 3661 - 1.1 kV

UL and cUL approval
-60°C to +180°C

**Approvals - standards**

- UL approval (180 °C / 1100 V) as per standard UL 758 – File no.: E101965.
- cUL approval (CSA 180 °C / 1000 V) as per standard C22.2 N° 210 – File no.: E101965.
- Compliance with the tests described as per standard IEC 60092-350/353/360, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2. • Horizontal flame as per UL approval.
- FT1 and FT2 flame ratings as per cUL approval.

Applications

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

Options

- Flexible bare copper core class 5 as per IEC 60228: contact us.
- Flexible or extra-flexible silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228: contact us.
- Without reinforcing braid: contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Multi-conductor cable made up of an assembly of single conductor cables SILICOUL® Style 3661 1.1 KV: contact us. • Other colours: contact us.
- Other nominal metric or American cross-sections: contact us.
- Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID

4 3 2 1



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

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

Style 3661 - 1.1 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|-----------------------|-----------------------------------|
| 1.5 | 7 x 0.52* | 12.2 | 3.8 | 24.7 |
| 2.5 | 19 x 0.40* | 7.56 | 4.3 | 35.2 |
| 4 | 32 x 0.40* | 4.70 | 4.9 | 52.4 |
| 6 | 48 x 0.40* | 3.11 | 6.0 | 76.3 |
| 10 | 80 x 0.40 | 1.95 | 7.2 | 117 |
| 16 | 126 x 0.40 | 1.24 | 8.6 | 174 |
| 25 | 196 x 0.40 | 0.795 | 10.4 | 268 |
| 35 | 276 x 0.40 | 0.565 | 11.9 | 360 |
| 50 | 396 x 0.40 | 0.393 | 14.1 | 512 |
| 70 | 360 x 0.50 | 0.277 | 15.9 | 686 |
| 95 | 485 x 0.50 | 0.210 | 18.2 | 914 |
| 120 | 608 x 0.50 | 0.164 | 20.7 | 1174 |
| 150 | 756 x 0.50 | 0.132 | 23.2 | 1457 |
| 185 | 944 x 0.50 | 0.108 | 25.2 | 1819 |
| 240 | 1221 x 0.50 | 0.0817 | 29.2 | 2448 |
| 300 | 1525 x 0.50 | 0.0654 | 31.6 | 2992 |
| 400 | 2037 x 0.50 | 0.0495 | 34.6 | 3837 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:

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OMERIN
LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL®

Style 3662 - 4.2 kV

UL approval
-60°C to +180°C

**Approvals - standards**

- UL approval (180 °C / 4200 V) as per standard UL 758 – File no.: E101965.
- Compliance with the tests described as per standards IEC 60092-350/360, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.
- Horizontal flame as per UL approval.

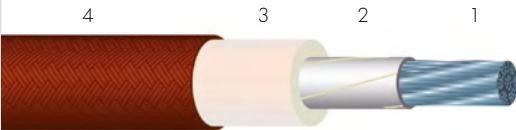
Applications

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

Options

- Flexible bare copper core class 5 as per IEC 60228: contact us.
- Flexible or extra-flexible silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228: contact us.
 - Without reinforcing braid: contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® Style 3662 4.2 KV: contact us.
 - Other colours: contact us.
- Other nominal metric or American cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 4.2 kV.
- Test voltage: 10 kV.

Standard products

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

Style 3662 - 4.2 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|---|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 7 x 0.52* | 12.2 | 5.5 | 39.4 |
| 2.5 | 19 x 0.40* | 7.56 | 6.3 | 52.9 |
| 4 | 32 x 0.40* | 4.70 | 6.9 | 72.2 |
| 6 | 48 x 0.40* | 3.11 | 7.8 | 98.7 |
| 10 | 80 x 0.40 | 1.95 | 9.0 | 143 |
| 16 | 126 x 0.40 | 1.24 | 10.2 | 201 |
| 25 | 196 x 0.40 | 0.795 | 11.8 | 296 |
| 35 | 276 x 0.40 | 0.565 | 13.2 | 392 |
| 50 | 396 x 0.40 | 0.393 | 15.3 | 545 |
| 70 | 360 x 0.50 | 0.277 | 17.0 | 720 |
| 95 | 485 x 0.50 | 0.210 | 20.2 | 973 |
| 120 | 608 x 0.50 | 0.164 | 22.2 | 1233 |
| 150 | 756 x 0.50 | 0.132 | 24.4 | 1519 |
| 185 | 944 x 0.50 | 0.108 | 25.8 | 1856 |
| 240 | 1221 x 0.50 | 0.0817 | 29.6 | 2470 |
| 300 | 1525 x 0.50 | 0.0654 | 31.8 | 3004 |
| 400 | 2037 x 0.50 | 0.0495 | 35.7 | 3909 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:**OMERIN division principale**

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® Style 3663 - 7.2 kV

UL approval
-60°C to +180°C

**Approvals - standards**

- UL approval (180 °C / 7200 V) as per standard UL 758 – File no.: E101965.
- Compliance with the tests described as per standard IEC 60092-350/354/360, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.
- Horizontal flame as per UL approval.

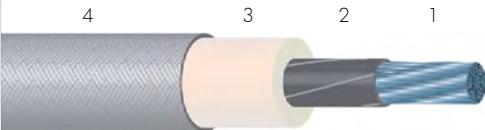
Applications

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

Options

- Flexible bare copper core - class 5 as per IEC 60228: contact us.
- Flexible or extra-flexible silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228: contact us.
 - Without reinforcing braid: contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® Style 3663 7.2 KV: contact us.
 - Other colours: contact us.
- Other nominal metric or American cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 7.2 kV.
- Test voltage: 15 kV.

Standard products

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

Style 3663 - 7.2 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|--------------------------|--------------------------------------|
| 2.5 | 19 x 0.40* | 7.56 | 7.7 | 69.2 |
| 4 | 32 x 0.40* | 4.70 | 8.3 | 89.7 |
| 6 | 48 x 0.40* | 3.11 | 9.2 | 119 |
| 10 | 80 x 0.40 | 1.95 | 10.4 | 166 |
| 16 | 126 x 0.40 | 1.24 | 11.6 | 227 |
| 25 | 196 x 0.40 | 0.795 | 13.1 | 325 |
| 35 | 276 x 0.40 | 0.565 | 14.6 | 425 |
| 50 | 396 x 0.40 | 0.393 | 16.7 | 583 |
| 70 | 360 x 0.50 | 0.277 | 18.3 | 759 |
| 95 | 485 x 0.50 | 0.210 | 19.9 | 995 |
| 120 | 608 x 0.50 | 0.164 | 23.0 | 1262 |
| 150 | 756 x 0.50 | 0.132 | 24.1 | 1555 |
| 185 | 944 x 0.50 | 0.108 | 26.9 | 1904 |
| 240 | 1221 x 0.50 | 0.0817 | 30.7 | 2522 |
| 300 | 1525 x 0.50 | 0.0654 | 32.9 | 3059 |
| 400 | 2037 x 0.50 | 0.0495 | 37.2 | 3999 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® Style 3664 - 15 kV

UL approval
-60°C to +180°C

**Approvals - standards**

- UL approval (180 °C / 15000 V) as per standard UL 758 – File no.: E101965.
- Compliance with the tests described as per standard IEC 60092-350/354/360, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.
- Horizontal flame as per UL approval.

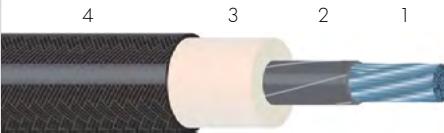
Applications

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

Options

- Flexible bare copper core - class 5 as per IEC 60228: contact us.
- Flexible or extra-flexible silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228: contact us.
 - Without reinforcing braid: contact us.
 - Varnished synthetic fibre reinforcing braid: contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® Style 3664 15 KV: contact us.
 - Other colours: contact us.
- Other nominal metric or American cross-sections: contact us.
 - Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core - class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

- Continuous operating temperatures: -60°C to +180°C.
- Bending radius: 5 x D.
- Good resistance to thermal shock and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage: 15 kV.
- Test voltage: 30 kV.

Standard products

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

Style 3664 - 15 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|---|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 2.5 | 19 x 0.40* | 7.56 | 10.6 | 116 |
| 4 | 32 x 0.40* | 4.70 | 11.0 | 135 |
| 6 | 48 x 0.40* | 3.11 | 11.8 | 167 |
| 10 | 80 x 0.40 | 1.95 | 13.1 | 224 |
| 16 | 126 x 0.40 | 1.24 | 14.2 | 287 |
| 25 | 196 x 0.40 | 0.795 | 15.7 | 390 |
| 35 | 276 x 0.40 | 0.565 | 17.2 | 496 |
| 50 | 396 x 0.40 | 0.393 | 18.9 | 649 |
| 70 | 360 x 0.50 | 0.277 | 21.3 | 847 |
| 95 | 485 x 0.50 | 0.210 | 23.2 | 1079 |
| 120 | 608 x 0.50 | 0.164 | 25.2 | 1349 |
| 150 | 756 x 0.50 | 0.132 | 27.9 | 1672 |
| 185 | 944 x 0.50 | 0.108 | 29.3 | 2017 |
| 240 | 1221 x 0.50 | 0.0817 | 33.1 | 2650 |
| 300 | 1525 x 0.50 | 0.0654 | 35.5 | 3209 |
| 400 | 2037 x 0.50 | 0.0495 | 39.6 | 4152 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ALU FLEX

1.1 kV

-60°C to +180°C

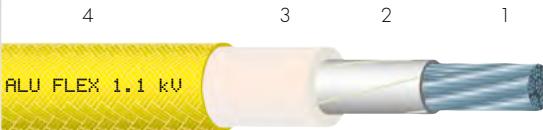
Applications

- 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 1.1 kV): contact us.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® ALU FLEX BG 1.1 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® ALU FLEX BI 1.1 kV): contact us.
 - Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ALU FLEX 1.1 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.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible aluminium core.
- 2 • Facultative separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

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

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard reinforcing braid colour: yellow.
- Standard marking: OMERIN – SILICOUL ALU FLEX 1.1 KV – {cross-section/mm²}

SILICOUL® ALU FLEX 1.1 kV

| Flexible aluminium core | | | INSULATED WIRE OR CABLE | |
|--------------------------------|--|---|--------------------------|--------------------------------------|
| Nominal cross-section (mm²) | Maximal diameter of strands (mm) | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 0.35 | 21.2 | 3.8 | 16 |
| 2.5 | 0.42 | 12.7 | 4.2 | 20 |
| 4 | 0.42 | 7.85 | 4.9 | 28 |
| 6 | 0.42 | 5.23 | 6.0 | 38 |
| 10 | 0.52 | 3.03 | 7.3 | 58 |
| 16 | 0.41 | 1.91 | 8.5 | 82 |
| 25 | 0.41 | 1.20 | 10.5 | 121 |
| 35 | 0.41 | 0.868 | 11.9 | 158 |
| 50 | 0.41 | 0.641 | 13.9 | 222 |
| 70 | 0.51 | 0.443 | 16.1 | 300 |
| 95 | 0.51 | 0.320 | 18.3 | 388 |
| 120 | 0.51 | 0.253 | 21.2 | 508 |
| 150 | 0.51 | 0.206 | 23.6 | 634 |
| 185 | 0.51 | 0.164 | 25.6 | 752 |
| 240 | 0.51 | 0.125 | 28.8 | 979 |
| 300 | 0.51 | 0.100 | 31.2 | 1152 |
| 400 | 0.51 | 0.0778 | 35.4 | 1513 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ALU FLEX

3.7 kV

-60°C to +180°C

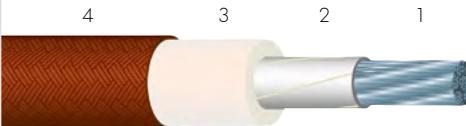
Applications

- 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 3.7 kV): contact us.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® ALU FLEX BG 3.7 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® ALU FLEX BI 3.7 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ALU FLEX 3.7 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.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible aluminium core.
- 2 • Facultative separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

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

Electrical

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

Standard products

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

SILICOUL® ALU FLEX 3.7 kV

| Flexible aluminium core | | | INSULATED WIRE OR CABLE | | |
|---|--|--|-----------------------------|---|--|
| Nominal cross-section (mm ²) | Maximal diameter of strands (mm) | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) | |
| 1.5 | 0.35 | 21.2 | 5.8 | 32 | |
| 2.5 | 0.42 | 12.7 | 6.2 | 37 | |
| 4 | 0.42 | 7.85 | 6.9 | 48 | |
| 6 | 0.42 | 5.23 | 7.6 | 58 | |
| 10 | 0.52 | 3.03 | 8.9 | 82 | |
| 16 | 0.41 | 1.91 | 9.9 | 106 | |
| 25 | 0.41 | 1.20 | 11.9 | 149 | |
| 35 | 0.41 | 0.868 | 13.3 | 194 | |
| 50 | 0.41 | 0.641 | 15.1 | 253 | |
| 70 | 0.51 | 0.443 | 17.5 | 343 | |
| 95 | 0.51 | 0.320 | 20.3 | 452 | |
| 120 | 0.51 | 0.253 | 22.6 | 565 | |
| 150 | 0.51 | 0.206 | 24.8 | 690 | |
| 185 | 0.51 | 0.164 | 26.6 | 799 | |
| 240 | 0.51 | 0.125 | 29.6 | 1018 | |
| 300 | 0.51 | 0.100 | 32.2 | 1210 | |
| 400 | 0.51 | 0.0778 | 36.2 | 1567 | |

For this product, please contact:

OMERIN division principale

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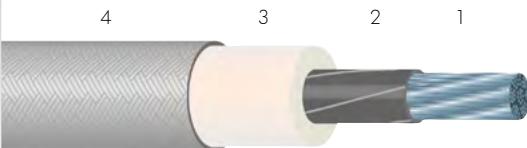
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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ALU FLEX 6.6 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 6.6 kV): contact us.
 - > Outer flexible armour: (ref. SILICOUL® ALU FLEX BG 6.6 kV): contact us.
 - > Galvanised steel braid (ref. SILICOUL® ALU FLEX BI 6.6 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® ALU FLEX BI 6.6 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® ALU FLEX 6.6 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 temperatures: -60°C to +180°C.
- Good resistance to oil and hydrocarbons.
- Good mechanical strength.

Electrical

- Rated voltage: 6.6 kV.
- Test voltage: 15 kV.

Standard products

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

SILICOUL® ALU FLEX 6.6 kV

| Flexible aluminium core | | | INSULATED WIRE OR CABLE | |
|---|--|---|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | 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 | 7.6 | 54 |
| 4 | 0.42 | 7.85 | 8.3 | 66 |
| 6 | 0.42 | 5.23 | 9.1 | 80 |
| 10 | 0.52 | 3.03 | 10.0 | 100 |
| 16 | 0.41 | 1.91 | 11.3 | 130 |
| 25 | 0.41 | 1.20 | 13.2 | 180 |
| 35 | 0.41 | 0.868 | 14.7 | 226 |
| 50 | 0.41 | 0.641 | 16.5 | 292 |
| 70 | 0.51 | 0.443 | 18.6 | 376 |
| 95 | 0.51 | 0.320 | 21.1 | 478 |
| 120 | 0.51 | 0.253 | 23.5 | 597 |
| 150 | 0.51 | 0.206 | 25.7 | 727 |
| 185 | 0.51 | 0.164 | 27.4 | 849 |
| 240 | 0.51 | 0.125 | 30.6 | 1067 |
| 300 | 0.51 | 0.100 | 33.2 | 1263 |
| 400 | 0.51 | 0.0778 | 37.7 | 1655 |

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LES CABLES DE L'EXTREME

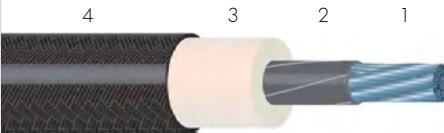
HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

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

- > Tin-plated copper braid (ref. SILICOUL® ALU FLEX SCR 13.8 kV): contact us.
- Electrical shielding:
- > 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 ²) | 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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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR 1.1 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards : IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

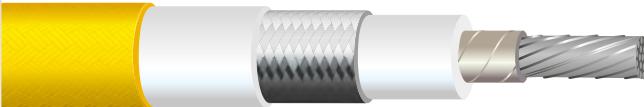
- All industrial applications for which power cables can be submitted to electromagnetic disturbances.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - Power cabinets.

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.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® SCR BG 1.1 kV): contact us. > Stainless steel braid (ref. SILICOUL® SCR BI 1.1 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR 1.1 kV: contact us.
 - Outer marking: contact us.
 - Other colours: contact us.
- Other nominal cross-sections: contact us.
- Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID

6 5 4 3 2 1



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Facultative separating tape.
- 3 • Insulation: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Silicone rubber.
- 6 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

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

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: white.
- Standard reinforcing braid colour: yellow.

SILICOUL® SCR 1.1 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 6.4 | 54 |
| 2.5 | 50 x 0.25 | 8.21 | 7.1 | 70 |
| 4 | 56 x 0.30 | 5.09 | 8.1 | 94 |
| 6 | 84 x 0.30 | 3.39 | 8.9 | 126 |
| 10 | 80 x 0.40 | 1.95 | 10.5 | 179 |
| 16 | 126 x 0.40 | 1.24 | 12.1 | 260 |
| 25 | 196 x 0.40 | 0.795 | 14.2 | 377 |
| 35 | 276 x 0.40 | 0.565 | 15.9 | 496 |
| 50 | 396 x 0.40 | 0.393 | 18.3 | 694 |
| 70 | 360 x 0.50 | 0.277 | 20.9 | 915 |
| 95 | 485 x 0.50 | 0.210 | 23.5 | 1179 |
| 120 | 608 x 0.50 | 0.164 | 25.4 | 1438 |
| 150 | 756 x 0.50 | 0.132 | 28.3 | 1808 |
| 185 | 944 x 0.50 | 0.108 | 30.7 | 2167 |
| 240 | 1221 x 0.50 | 0.0817 | 35.3 | 2947 |
| 300 | 1525 x 0.50 | 0.0654 | 38.1 | 3544 |
| 400 | 2037 x 0.50 | 0.0495 | 41.2 | 4427 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR 3.7 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards: IEC 60228, IEC 60331-11/21, IEC 60332-1-2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

- All industrial applications for which power cables can be submitted to electromagnetic disturbances.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, 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.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® SCR BG 3.7 kV): contact us.
 - Outer marking: 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: 3.7 kV.
- Test voltage: 10 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: white.
- Standard reinforcing braid colour: brown.

SILICOUL® SCR 3.7 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 8.7 | 91 |
| 2.5 | 50 x 0.25 | 8.21 | 9.2 | 106 |
| 4 | 56 x 0.30 | 5.09 | 10.2 | 135 |
| 6 | 84 x 0.30 | 3.39 | 11.5 | 185 |
| 10 | 80 x 0.40 | 1.95 | 12.7 | 239 |
| 16 | 126 x 0.40 | 1.24 | 13.9 | 305 |
| 25 | 196 x 0.40 | 0.795 | 15.7 | 430 |
| 35 | 276 x 0.40 | 0.565 | 17.1 | 530 |
| 50 | 396 x 0.40 | 0.393 | 20.2 | 753 |
| 70 | 360 x 0.50 | 0.277 | 21.9 | 950 |
| 95 | 485 x 0.50 | 0.210 | 24.9 | 1241 |
| 120 | 608 x 0.50 | 0.164 | 27.3 | 1543 |
| 150 | 756 x 0.50 | 0.132 | 29.9 | 1888 |
| 185 | 944 x 0.50 | 0.108 | 31.7 | 2221 |
| 240 | 1221 x 0.50 | 0.0817 | 35.7 | 2973 |
| 300 | 1525 x 0.50 | 0.0654 | 38.3 | 3558 |
| 400 | 2037 x 0.50 | 0.0495 | 42.4 | 4518 |

For this product, please contact:

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HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR 6.6 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards:
IEC 60228, IEC 60331-11/21, IEC 60332-1-2/
IEC 60332-3-22 category A and IEC 60754-2.

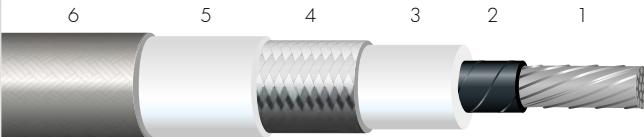
Applications

- All industrial applications for which power cables can be submitted to electromagnetic disturbances.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, 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.
 - Outer flexible armour:
> Galvanised steel braid
(ref. SILICOUL® SCR BG 6.6 kV): contact us.
> Stainless steel braid
(ref. SILICOUL® SCR BI 6.6 kV): contact us.
 - Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR 6.6 kV:
contact us.
 - Outer marking: contact us.
 - Other colours: contact us.
 - Other nominal cross-sections: contact us.
- Other options and/or combinations of the options outlined above: contact us.

SILICONE INSULATED MEDIUM VOLTAGE POWER CABLES WITH REINFORCING BRAID



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Silicone rubber.
- 6 • Reinforcement: Coated synthetic fibre braid.

Characteristics**General**

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

Electrical

- Rated voltage: 6.6 kV.
- Test voltage: 15 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: white.
- Standard reinforcing braid colour: grey.

SILICOUL® SCR 6.6 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 11.8 | 161 |
| 4 | 56 x 0.30 | 5.09 | 12.4 | 185 |
| 6 | 84 x 0.30 | 3.39 | 13.3 | 223 |
| 10 | 80 x 0.40 | 1.95 | 14.5 | 275 |
| 16 | 126 x 0.40 | 1.24 | 15.8 | 359 |
| 25 | 196 x 0.40 | 0.795 | 17.5 | 473 |
| 35 | 276 x 0.40 | 0.565 | 19.9 | 626 |
| 50 | 396 x 0.40 | 0.393 | 22.0 | 805 |
| 70 | 360 x 0.50 | 0.277 | 23.9 | 1039 |
| 95 | 485 x 0.50 | 0.210 | 25.8 | 1293 |
| 120 | 608 x 0.50 | 0.164 | 28.6 | 1594 |
| 150 | 756 x 0.50 | 0.132 | 30.2 | 1950 |
| 185 | 944 x 0.50 | 0.108 | 33.3 | 2376 |
| 240 | 1221 x 0.50 | 0.0817 | 37.4 | 3059 |
| 300 | 1525 x 0.50 | 0.0654 | 39.8 | 3640 |
| 400 | 2037 x 0.50 | 0.0495 | 45.0 | 4720 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR 13.8 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards:
IEC 60228, IEC 60331-11/21, IEC 60332-1-2/
IEC 60332-3-22 category A and IEC 60754-2.

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, inverters, 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.
 - Outer flexible armour:
> Galvanised steel braid
(ref. SILICOUL® SCR BG 13.8 kV): contact us.
> Stainless steel braid
(ref. SILICOUL® SCR BI 13.8 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR 13.8 kV: contact us.
 - Outer marking: 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.
- Excellent resistance to oil and hydrocarbons.
- Excellent mechanical strength.

Electrical

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

Standard products

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

SILICOUL® SCR 13.8 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|---|-------------------------|-----------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 2.5 | 50 x 0.25 | 8.21 | 14.2 | 208 |
| 4 | 56 x 0.30 | 5.09 | 15.2 | 254 |
| 6 | 84 x 0.30 | 3.39 | 16.0 | 292 |
| 10 | 80 x 0.40 | 1.95 | 17.5 | 358 |
| 16 | 126 x 0.40 | 1.24 | 18.8 | 456 |
| 25 | 196 x 0.40 | 0.795 | 21.1 | 593 |
| 35 | 276 x 0.40 | 0.565 | 23.0 | 721 |
| 50 | 396 x 0.40 | 0.393 | 24.9 | 926 |
| 70 | 360 x 0.50 | 0.277 | 27.1 | 1162 |
| 95 | 485 x 0.50 | 0.210 | 29.2 | 1423 |
| 120 | 608 x 0.50 | 0.164 | 31.6 | 1724 |
| 150 | 756 x 0.50 | 0.132 | 34.5 | 2199 |
| 185 | 944 x 0.50 | 0.108 | 35.7 | 2506 |
| 240 | 1221 x 0.50 | 0.0817 | 39.9 | 3195 |
| 300 | 1525 x 0.50 | 0.0654 | 42.7 | 3815 |
| 400 | 2037 x 0.50 | 0.0495 | 48.3 | 4958 |

For this product, please contact:

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LES CABLES DE L'EXTREME



SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES

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APPROVAL

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HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI 1.1 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards: IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI 1.1 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.

SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES

4 3 2 1



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

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: yellow.
- Standard marking: OMERIN – SILICOUL DI 1.1 KV – {cross-section/mm²}

SILICOUL® DI 1.1 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|---|-----------------------|-----------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 3.6 | 23 |
| 2.5 | 50 x 0.25 | 8.21 | 4.0 | 33 |
| 4 | 56 x 0.30 | 5.09 | 4.9 | 52 |
| 6 | 84 x 0.30 | 3.39 | 5.7 | 74 |
| 10 | 80 x 0.40 | 1.95 | 6.9 | 115 |
| 16 | 126 x 0.40 | 1.24 | 8.2 | 169 |
| 25 | 196 x 0.40 | 0.795 | 10.0 | 262 |
| 35 | 276 x 0.40 | 0.565 | 11.2 | 347 |
| 50 | 396 x 0.40 | 0.393 | 13.2 | 500 |
| 70 | 360 x 0.50 | 0.277 | 15.5 | 688 |
| 95 | 485 x 0.50 | 0.210 | 17.6 | 895 |
| 120 | 608 x 0.50 | 0.164 | 19.5 | 1137 |
| 150 | 756 x 0.50 | 0.132 | 22.0 | 1425 |
| 185 | 944 x 0.50 | 0.108 | 23.8 | 1757 |
| 240 | 1221 x 0.50 | 0.0817 | 26.7 | 2302 |
| 300 | 1525 x 0.50 | 0.0654 | 29.6 | 2883 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI 3.7 kV

-60°C to +180°C

Approvals - standards

- Compliance with the standards: IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI 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 temperatures: -60°C to +180°C.
- Good resistance to usual chemical atmospheres.

Electrical

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

Standard products

- Standard insulation colour: white.
- Standard reinforcing sheath colour: brown.
- Standard marking: OMERIN – SILICOUL DI 3.7 KV – {cross-section/mm²}

SILICOUL® DI 3.7 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|---|-------------------------|-----------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 30 x 0.25 | 13.7 | 5.2 | 36 |
| 2.5 | 50 x 0.25 | 8.21 | 5.7 | 48 |
| 4 | 56 x 0.30 | 5.09 | 6.3 | 66 |
| 6 | 84 x 0.30 | 3.39 | 7.2 | 92 |
| 10 | 80 x 0.40 | 1.95 | 8.4 | 136 |
| 16 | 126 x 0.40 | 1.24 | 9.6 | 192 |
| 25 | 196 x 0.40 | 0.795 | 11.2 | 286 |
| 35 | 276 x 0.40 | 0.565 | 12.6 | 378 |
| 50 | 396 x 0.40 | 0.393 | 14.7 | 539 |
| 70 | 360 x 0.50 | 0.277 | 16.4 | 715 |
| 95 | 485 x 0.50 | 0.210 | 19.0 | 942 |
| 120 | 608 x 0.50 | 0.164 | 21.0 | 1194 |
| 150 | 756 x 0.50 | 0.132 | 23.2 | 1476 |
| 185 | 944 x 0.50 | 0.108 | 24.6 | 1793 |
| 240 | 1221 x 0.50 | 0.0817 | 28.4 | 2390 |
| 300 | 1525 x 0.50 | 0.0654 | 30.6 | 2940 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI 6.6 kV

-60°C to +180°C

Approvals - standards

- Compliance with the standards: IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

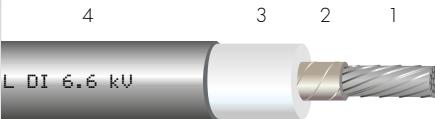
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI 6.6 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.

SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Sheath: Silicone rubber.

Characteristics

General

- Continuous operating temperatures: -60°C to +180°C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 6.6 kV.
- Test voltage: 15 kV.

Standard products

- Standard insulation colour: white.
- Standard reinforcing sheath colour: grey.
- Standard marking: OMERIN – SILICOUL DI 6.6 KV – {cross-section/mm²}

SILICOUL® DI 6.6 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|--|-------------------|---|--------------------------|--------------------------------------|
| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 2.5 | 50 x 0.25 | 8.21 | 7.1 | 65 |
| 4 | 56 x 0.30 | 5.09 | 7.7 | 84 |
| 6 | 84 x 0.30 | 3.39 | 8.6 | 112 |
| 10 | 80 x 0.40 | 1.95 | 9.8 | 159 |
| 16 | 126 x 0.40 | 1.24 | 11.0 | 218 |
| 25 | 196 x 0.40 | 0.795 | 12.5 | 314 |
| 35 | 276 x 0.40 | 0.565 | 14.0 | 412 |
| 50 | 396 x 0.40 | 0.393 | 16.1 | 578 |
| 70 | 360 x 0.50 | 0.277 | 17.7 | 755 |
| 95 | 485 x 0.50 | 0.210 | 19.2 | 966 |
| 120 | 608 x 0.50 | 0.164 | 21.8 | 1224 |
| 150 | 756 x 0.50 | 0.132 | 23.0 | 1514 |
| 185 | 944 x 0.50 | 0.108 | 25.7 | 1843 |
| 240 | 1221 x 0.50 | 0.0817 | 29.5 | 2447 |
| 300 | 1525 x 0.50 | 0.0654 | 31.7 | 3001 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI 13.8 kV

-60 °C to +180 °C

Approvals - standards

- Compliance with the standards : IEC 60228, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60332-3-22 category A and IEC 60754-2.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI 13.8 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 temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

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

Standard products

- Standard insulation colour: white.
- Standard sheath colour: black.
- Standard marking: OMERIN – SILICOUL DI 13.8 KV – {cross-section/mm²}

SILICOUL® DI 13.8 kV

Flexible core • class 5 as per IEC 60228

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 9.6 | 104 |
| 4 | 56 x 0.30 | 5.09 | 10.4 | 131 |
| 6 | 84 x 0.30 | 3.39 | 11.2 | 161 |
| 10 | 80 x 0.40 | 1.95 | 12.5 | 217 |
| 16 | 126 x 0.40 | 1.24 | 13.6 | 279 |
| 25 | 196 x 0.40 | 0.795 | 15.1 | 382 |
| 35 | 276 x 0.40 | 0.565 | 16.6 | 487 |
| 50 | 396 x 0.40 | 0.393 | 18.3 | 650 |
| 70 | 360 x 0.50 | 0.277 | 20.1 | 842 |
| 95 | 485 x 0.50 | 0.210 | 22.0 | 1058 |
| 120 | 608 x 0.50 | 0.164 | 24.0 | 1321 |
| 150 | 756 x 0.50 | 0.132 | 26.7 | 1640 |
| 185 | 944 x 0.50 | 0.108 | 28.1 | 1967 |
| 240 | 1221 x 0.50 | 0.0817 | 31.9 | 2588 |
| 300 | 1525 x 0.50 | 0.0654 | 34.3 | 3165 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI

Style 3661 - 1.1 kV

UL and cUL approval
-60 °C to +180 °C

**Approvals - standards**

- UL approval (180 °C / 1100 V) as per UL 758 standard – File n°: E101965.
- cUL approval (CSA 180 °C / 1000 V) as per C22.2 N° 210 standard – File n°: E101965.
- Compliance with the standard: IEC 60228.
- Horizontal flame as per UL approval.
- FT1 and FT2 flame ratings as per cUL approval.

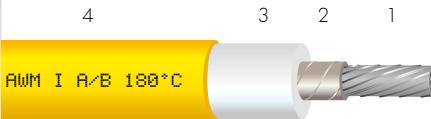
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI Style 3661 - 1.1 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.

SILICONE INSULATED AND 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: Silicone rubber.

Characteristics
General

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: yellow.
- Standard marking: OMERIN 369 - AWM I A/B 180C 1000V FT2 SILICOUL DI 180C 1100V 3661 AWM - {cross-section/mm²}

SILICOUL® DI Style 3661 - 1.1 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|---|--------------------------|--------------------------------------|
| 1.5 | 7 x 0.52* | 12.2 | 3.6 | 23 |
| 2.5 | 19 x 0.40* | 2.56 | 4.0 | 33 |
| 4 | 32 x 0.40* | 4.70 | 4.9 | 52 |
| 6 | 48 x 0.40* | 3.11 | 5.7 | 74 |
| 10 | 80 x 0.40 | 1.95 | 6.9 | 115 |
| 16 | 126 x 0.40 | 1.24 | 8.2 | 169 |
| 25 | 196 x 0.40 | 0.795 | 10.0 | 262 |
| 35 | 276 x 0.40 | 0.565 | 11.2 | 347 |
| 50 | 396 x 0.40 | 0.393 | 13.2 | 500 |
| 70 | 360 x 0.50 | 0.277 | 15.5 | 688 |
| 95 | 485 x 0.50 | 0.210 | 17.6 | 895 |
| 120 | 608 x 0.50 | 0.164 | 19.5 | 1 137 |
| 150 | 756 x 0.50 | 0.132 | 22.0 | 1 425 |
| 185 | 944 x 0.50 | 0.108 | 23.8 | 1 757 |
| 240 | 1221 x 0.50 | 0.0817 | 26.7 | 2 302 |
| 300 | 1525 x 0.50 | 0.0654 | 29.6 | 2 883 |

* Tin-plated copper core – class 2 as per IEC 60228.

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI Style 3662 - 4.2 kV

UL approval
-60 °C to +180 °C

**Approvals - standards**

- UL approval (180 °C / 4200 V) as per UL 758 standard – File n°: E101965.
- Compliance with the standard: IEC 60228.
- Horizontal flame as per UL approval.

Applications

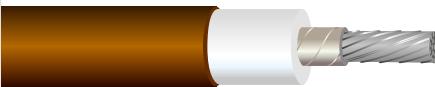
- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Power cabinets.

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® DI Style 3662 – 4.2 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.

SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES

4 3 2 1



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

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 4.2 kV.
- Test voltage: 10 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: brown.

SILICOUL® DI Style 3662 - 4.2 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 1.5 | 7 x 0.52* | 12.2 | 5.2 | 36 |
| 2.5 | 19 x 0.40* | 7.56 | 5.7 | 48 |
| 4 | 32 x 0.40* | 4.70 | 6.3 | 66 |
| 6 | 48 x 0.40* | 3.11 | 7.2 | 92 |
| 10 | 80 x 0.40 | 1.95 | 8.4 | 136 |
| 16 | 126 x 0.40 | 1.24 | 9.6 | 192 |
| 25 | 196 x 0.40 | 0.795 | 11.2 | 286 |
| 35 | 276 x 0.40 | 0.565 | 12.6 | 378 |
| 50 | 396 x 0.40 | 0.393 | 14.7 | 539 |
| 70 | 360 x 0.50 | 0.277 | 16.4 | 715 |
| 95 | 485 x 0.50 | 0.210 | 19.0 | 942 |
| 120 | 608 x 0.50 | 0.164 | 21.0 | 1194 |
| 150 | 756 x 0.50 | 0.132 | 23.2 | 1476 |
| 185 | 944 x 0.50 | 0.108 | 24.6 | 1793 |
| 240 | 1221 x 0.50 | 0.0817 | 28.4 | 2390 |
| 300 | 1525 x 0.50 | 0.0654 | 30.6 | 2940 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:

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OMERIN
LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI

Style 3663 - 7.2 kV

UL approval
-60 °C to +180 °C

**Approvals - standards**

- UL approval (180 °C / 7200 V) as per UL 758 standard – File n°: E101965.
- Compliance with the standard: IEC 60228.
- Horizontal flame as per UL approval.

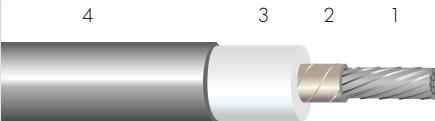
Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI Style 3663 – 7.2 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.

SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Sheath: Silicone rubber.

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 7.2 kV.
- Test voltage: 15 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: grey.

SILICOUL® DI Style 3663 – 7.2 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|-----------------------|-----------------------------------|
| 2.5 | 19 x 0.40* | 7.56 | 7.1 | 65 |
| 4 | 32 x 0.40* | 4.70 | 7.7 | 84 |
| 6 | 48 x 0.40* | 3.11 | 8.6 | 112 |
| 10 | 80 x 0.40 | 1.95 | 9.8 | 159 |
| 16 | 126 x 0.40 | 1.24 | 11.0 | 218 |
| 25 | 196 x 0.40 | 0.795 | 12.5 | 314 |
| 35 | 276 x 0.40 | 0.565 | 14.0 | 412 |
| 50 | 396 x 0.40 | 0.393 | 16.1 | 578 |
| 70 | 360 x 0.50 | 0.277 | 17.7 | 755 |
| 95 | 485 x 0.50 | 0.210 | 19.2 | 966 |
| 120 | 608 x 0.50 | 0.164 | 21.8 | 1224 |
| 150 | 756 x 0.50 | 0.132 | 23.0 | 1514 |
| 185 | 944 x 0.50 | 0.108 | 25.7 | 1843 |
| 240 | 1221 x 0.50 | 0.0817 | 29.5 | 2447 |
| 300 | 1525 x 0.50 | 0.0654 | 31.7 | 3001 |

* Tin-plated copper core – class 2 as per IEC 60228.

For this product, please contact:

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 LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® DI

Style 3664 - 15 kV

UL approval
-60 °C to +180 °C

**Approvals - standards**

- UL approval (180 °C / 15000 V) as per UL 758 standard – File n°: E101965.
- cUL approval (CSA 200 °C / 15000 V) as per GTO-15 and C22.2 N° 127 standard – File n°: E211350.
- Compliance with the standard: IEC 60228.
- Horizontal flame as per UL approval.

Applications

- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, 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® DI Style 3664 – 15 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.

SILICONE INSULATED AND SHEATHED MEDIUM VOLTAGE POWER CABLES

4 3 2 1



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Sheath: Silicone rubber.

Characteristics**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- Good resistance to usual chemical atmospheres.

Electrical

- Rated voltage: 15 kV.
- Test voltage: 30 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: black.
- Standard marking: OMERIN 369 - SILICOUL DI 180C 15000V 3664 AWM - {cross-section/mm²}

SILICOUL® DI Style 3664 – 15 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 19 x 0.40* | 7.56 | 9.6 | 104 |
| 4 | 32 x 0.40* | 4.70 | 10.4 | 131 |
| 6 | 48 x 0.40* | 3.11 | 11.2 | 161 |
| 10 | 80 x 0.40 | 1.95 | 12.5 | 217 |
| 16 | 126 x 0.40 | 1.24 | 13.6 | 279 |
| 25 | 196 x 0.40 | 0.795 | 15.1 | 382 |
| 35 | 276 x 0.40 | 0.565 | 16.6 | 487 |
| 50 | 396 x 0.40 | 0.393 | 18.3 | 650 |
| 70 | 360 x 0.50 | 0.277 | 20.1 | 842 |
| 95 | 485 x 0.50 | 0.210 | 22.0 | 1058 |
| 120 | 608 x 0.50 | 0.164 | 24.0 | 1321 |
| 150 | 756 x 0.50 | 0.132 | 26.7 | 1640 |
| 185 | 944 x 0.50 | 0.108 | 28.1 | 1967 |
| 240 | 1221 x 0.50 | 0.0817 | 31.9 | 2588 |
| 300 | 1525 x 0.50 | 0.0654 | 34.3 | 3165 |

* Tin-plated copper core – class 2 as per IEC 60228.

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OMERIN
LES CABLES DE L'EXTREME



SILICONE INSULATED AND POLYURETHANE SHEATHED MEDIUM VOLTAGE POWER CABLES

FT No. PRODUCT REFERENCE

APPROVAL

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HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ST PUR

1.1 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, inverters, choppers.
 - Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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 1.1 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: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: yellow.
- Standard marking: OMERIN – SILICOUL ST PUR 1.1 KV – {cross-section/mm²}

SILICOUL® ST PUR 1.1 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|--|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 30 x 0.25 | 13.7 | 4.7 | 31 |
| 2.5 | 50 x 0.25 | 8.21 | 5.2 | 43 |
| 4 | 56 x 0.30 | 5.09 | 5.8 | 61 |
| 6 | 84 x 0.30 | 3.39 | 6.6 | 84 |
| 10 | 80 x 0.40 | 1.95 | 8.0 | 128 |
| 16 | 126 x 0.40 | 1.24 | 9.6 | 192 |
| 25 | 196 x 0.40 | 0.795 | 11.6 | 297 |
| 35 | 276 x 0.40 | 0.565 | 13.5 | 401 |
| 50 | 396 x 0.40 | 0.393 | 15.9 | 573 |
| 70 | 360 x 0.50 | 0.277 | 17.7 | 767 |
| 95 | 485 x 0.50 | 0.210 | 20.2 | 1001 |
| 120 | 608 x 0.50 | 0.164 | 22.1 | 1250 |
| 150 | 756 x 0.50 | 0.132 | 24.8 | 1583 |
| 185 | 944 x 0.50 | 0.108 | 26.8 | 1914 |
| 240 | 1221 x 0.50 | 0.0817 | 31.0 | 2556 |
| 300 | 1525 x 0.50 | 0.0654 | 33.4 | 3116 |
| 400 | 2037 x 0.50 | 0.0495 | 36.6 | 3949 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ST PUR

3.7 kV

-40°C to +150 °C

SILICONE INSULATED AND POLYURETHANE SHEATHED MEDIUM VOLTAGE POWER CABLES



SILICOUL ST PUR 3.7 KV

- 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, inverters, choppers.
 - Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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/mm²}

SILICOUL® ST PUR 3.7 kV

| Flexible core • class 5 as per IEC 60228 | | | INSULATED WIRE OR CABLE | |
|---|-------------------|--|--------------------------|--------------------------------------|
| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
| 1.5 | 30 x 0.25 | 13.7 | 6.4 | 49 |
| 2.5 | 50 x 0.25 | 8.21 | 6.9 | 63 |
| 4 | 56 x 0.30 | 5.09 | 7.7 | 85 |
| 6 | 84 x 0.30 | 3.39 | 8.6 | 112 |
| 10 | 80 x 0.40 | 1.95 | 10.0 | 162 |
| 16 | 126 x 0.40 | 1.24 | 11.4 | 227 |
| 25 | 196 x 0.40 | 0.795 | 13.4 | 339 |
| 35 | 276 x 0.40 | 0.565 | 14.8 | 436 |
| 50 | 396 x 0.40 | 0.393 | 17.1 | 610 |
| 70 | 360 x 0.50 | 0.277 | 18.8 | 804 |
| 95 | 485 x 0.50 | 0.210 | 21.6 | 1056 |
| 120 | 608 x 0.50 | 0.164 | 23.6 | 1314 |
| 150 | 756 x 0.50 | 0.132 | 26.0 | 1640 |
| 185 | 944 x 0.50 | 0.108 | 27.4 | 1944 |
| 240 | 1221 x 0.50 | 0.0817 | 31.4 | 2579 |
| 300 | 1525 x 0.50 | 0.0654 | 33.6 | 3128 |
| 400 | 2037 x 0.50 | 0.0495 | 37.7 | 4025 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ST PUR

6.6 kV

-40°C to +150°C

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, inverters, choppers.
- Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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 6.6 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: 6.6 kV.
- Test voltage: 15 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: grey.
- Standard marking: OMERIN – SILICOUL ST PUR 6.6 KV – {cross-section/mm²}

SILICOUL® ST PUR 6.6 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 8.5 | 84 |
| 4 | 56 x 0.30 | 5.09 | 9.1 | 105 |
| 6 | 84 x 0.30 | 3.39 | 10.2 | 139 |
| 10 | 80 x 0.40 | 1.95 | 11.6 | 192 |
| 16 | 126 x 0.40 | 1.24 | 13.2 | 266 |
| 25 | 196 x 0.40 | 0.795 | 14.7 | 370 |
| 35 | 276 x 0.40 | 0.565 | 16.4 | 479 |
| 50 | 396 x 0.40 | 0.393 | 18.5 | 652 |
| 70 | 360 x 0.50 | 0.277 | 20.3 | 855 |
| 95 | 485 x 0.50 | 0.210 | 21.8 | 1080 |
| 120 | 608 x 0.50 | 0.164 | 24.4 | 1345 |
| 150 | 756 x 0.50 | 0.132 | 25.8 | 1679 |
| 185 | 944 x 0.50 | 0.108 | 28.5 | 1995 |
| 240 | 1221 x 0.50 | 0.0817 | 32.5 | 2638 |
| 300 | 1525 x 0.50 | 0.0654 | 34.9 | 3204 |
| 400 | 2037 x 0.50 | 0.0495 | 39.4 | 4138 |

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® ST PUR

13.8 kV

-40°C to +150°C

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, inverters, choppers.
- Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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

Standard products

- Standard insulation colour: white.
- Standard sheath colour: black.
- Standard marking: OMERIN – SILICOUL ST PUR 13.8 KV – {cross-section/mm²}

SILICOUL® ST PUR 13.8 kV

Flexible core • class 5 as per IEC 60228

| Nominal cross-section (mm ²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|---|-------------------|---|-----------------------|-----------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 11.2 | 136 |
| 4 | 56 x 0.30 | 5.09 | 12.4 | 168 |
| 6 | 84 x 0.30 | 3.39 | 13.4 | 206 |
| 10 | 80 x 0.40 | 1.95 | 14.7 | 264 |
| 16 | 126 x 0.40 | 1.24 | 16.0 | 338 |
| 25 | 196 x 0.40 | 0.795 | 17.5 | 449 |
| 35 | 276 x 0.40 | 0.565 | 19.0 | 559 |
| 50 | 396 x 0.40 | 0.393 | 20.9 | 733 |
| 70 | 360 x 0.50 | 0.277 | 22.7 | 943 |
| 95 | 485 x 0.50 | 0.210 | 24.8 | 1180 |
| 120 | 608 x 0.50 | 0.164 | 26.8 | 1449 |
| 150 | 756 x 0.50 | 0.132 | 29.7 | 1815 |
| 185 | 944 x 0.50 | 0.108 | 31.1 | 2127 |
| 240 | 1221 x 0.50 | 0.0817 | 35.1 | 2787 |
| 300 | 1525 x 0.50 | 0.0654 | 37.5 | 3363 |
| 400 | 2037 x 0.50 | 0.0495 | 41.8 | 4302 |

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HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR PUR 1.1 kV

-40°C to +150°C

Approvals - standards

- Compliance with the standard: IEC 60228.

Applications

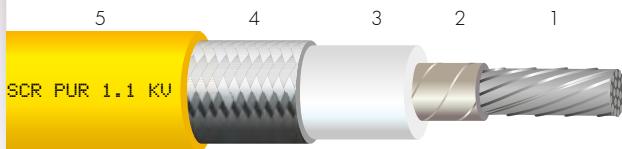
- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® SCR PUR BG 1.1 kV): contact us. > Stainless steel braid (ref. SILICOUL® SCR PUR BI 1.1 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR PUR 1.1 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.

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 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Polyurethane thermoplastic elastomer.

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: 1.1 kV.
- Test voltage: 3.5 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: yellow.
- Standard marking: OMERIN – SILICOUL SCR PUR 1.1 KV – {cross-section/mm²}

SILICOUL® SCR PUR 1.1 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|--|--------------------------|--------------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 6.4 | 58 |
| 2.5 | 50 x 0.25 | 8.21 | 6.9 | 71 |
| 4 | 56 x 0.30 | 5.09 | 7.5 | 89 |
| 6 | 84 x 0.30 | 3.39 | 8.3 | 121 |
| 10 | 80 x 0.40 | 1.95 | 9.5 | 164 |
| 16 | 126 x 0.40 | 1.24 | 11.0 | 242 |
| 25 | 196 x 0.40 | 0.795 | 12.8 | 345 |
| 35 | 276 x 0.40 | 0.565 | 14.5 | 458 |
| 50 | 396 x 0.40 | 0.393 | 17.1 | 652 |
| 70 | 360 x 0.50 | 0.277 | 18.9 | 843 |
| 95 | 485 x 0.50 | 0.210 | 21.4 | 1108 |
| 120 | 608 x 0.50 | 0.164 | 23.3 | 1359 |
| 150 | 756 x 0.50 | 0.132 | 26.0 | 1669 |
| 185 | 944 x 0.50 | 0.108 | 28.0 | 2026 |
| 240 | 1221 x 0.50 | 0.0817 | 32.4 | 2760 |
| 300 | 1525 x 0.50 | 0.0654 | 35.0 | 3334 |
| 400 | 2037 x 0.50 | 0.0495 | 38.0 | 4196 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR PUR 3.7 kV

-40°C to +150°C

Approvals - standards

- Compliance with the standard: IEC 60228.

Applications

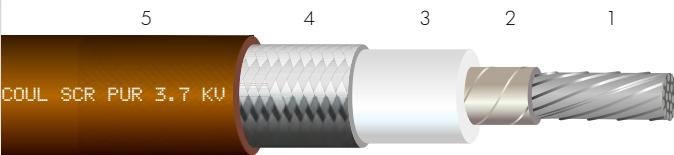
- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion

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.
 - Outer flexible armour: > Galvanised steel braid (ref. SILICOUL® SCR PUR BG 3.7 kV): contact us. > Stainless steel braid (ref. SILICOUL® SCR PUR BI 3.7 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR 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.

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 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Polyurethane thermoplastic elastomer.

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 SCR PUR 3.7 KV – {cross-section/mm²}

SILICOUL® SCR PUR 3.7 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|--|--------------------------|--------------------------------------|
| 1.5 | 30 x 0.25 | 13.7 | 8.1 | 85 |
| 2.5 | 50 x 0.25 | 8.21 | 8.6 | 100 |
| 4 | 56 x 0.30 | 5.09 | 9.2 | 120 |
| 6 | 84 x 0.30 | 3.39 | 10.2 | 164 |
| 10 | 80 x 0.40 | 1.95 | 11.4 | 212 |
| 16 | 126 x 0.40 | 1.24 | 12.6 | 275 |
| 25 | 196 x 0.40 | 0.795 | 14.4 | 395 |
| 35 | 276 x 0.40 | 0.565 | 16.0 | 499 |
| 50 | 396 x 0.40 | 0.393 | 18.3 | 696 |
| 70 | 360 x 0.50 | 0.277 | 20.2 | 898 |
| 95 | 485 x 0.50 | 0.210 | 22.8 | 1164 |
| 120 | 608 x 0.50 | 0.164 | 25.0 | 1433 |
| 150 | 756 x 0.50 | 0.132 | 27.2 | 1752 |
| 185 | 944 x 0.50 | 0.108 | 28.6 | 2057 |
| 240 | 1221 x 0.50 | 0.0817 | 32.8 | 2783 |
| 300 | 1525 x 0.50 | 0.0654 | 35.2 | 3347 |
| 400 | 2037 x 0.50 | 0.0495 | 39.1 | 4273 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR PUR 6.6 kV

-40 °C to +150°C

Approvals - standards

- Compliance with the standard: IEC 60228.

Applications

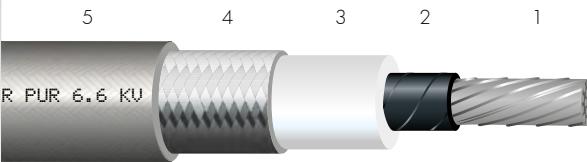
- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion.

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.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® SCR PUR BG 6.6 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® SCR PUR BI 6.6 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR PUR 6.6 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.

SILICONE INSULATED AND POLYURETHANE SHEATHED MEDIUM VOLTAGE POWER CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Polyurethane thermoplastic elastomer.

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: 6.6 kV.
- Test voltage: 15 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: grey.
- Standard marking: OMERIN – SILICOUL SCR PUR 6.6 KV – {cross-section/mm²}

SILICOUL® SCR PUR 6.6 kV**Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 10.5 | 139 |
| 4 | 56 x 0.30 | 5.09 | 11.1 | 161 |
| 6 | 84 x 0.30 | 3.39 | 12.0 | 193 |
| 10 | 80 x 0.40 | 1.95 | 13.4 | 249 |
| 16 | 126 x 0.40 | 1.24 | 14.6 | 326 |
| 25 | 196 x 0.40 | 0.795 | 16.3 | 438 |
| 35 | 276 x 0.40 | 0.565 | 17.9 | 569 |
| 50 | 396 x 0.40 | 0.393 | 20.2 | 752 |
| 70 | 360 x 0.50 | 0.277 | 21.8 | 969 |
| 95 | 485 x 0.50 | 0.210 | 23.3 | 1195 |
| 120 | 608 x 0.50 | 0.164 | 26.1 | 1472 |
| 150 | 756 x 0.50 | 0.132 | 27.3 | 1799 |
| 185 | 944 x 0.50 | 0.108 | 30.4 | 2216 |
| 240 | 1221 x 0.50 | 0.0817 | 34.4 | 2864 |
| 300 | 1525 x 0.50 | 0.0654 | 36.6 | 3420 |
| 400 | 2037 x 0.50 | 0.0495 | 41.5 | 4474 |

For this product, please contact:

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LES CABLES DE L'EXTREME

HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES

SILICOUL® SCR PUR 13.8 kV

-40 °C to +150°C

Approvals - standards

- Compliance with the standard: IEC 60228.

Applications

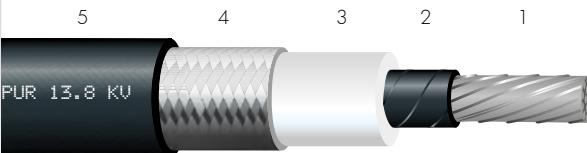
- All industrial applications for which power cables can be submitted to oil, hydrocarbons, humidity or mechanical forces.
 - Cabling for rotating machines: motors, alternators, generators.
 - Cabling for static machines: transformers, inductors, inverters, choppers.
 - Power cabinets.

Special provisions must be taken as per external conditions. In particular, for unsheltered outdoor installation, these cables must be protected from the elements and direct sunlight by being laid in a sheath, duct or hood. SILICOUL® ST PUR 1.1 kV cables are not dedicated for underground installation, neither for permanent or temporary immersion

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.
 - Outer flexible armour:
 - > Galvanised steel braid (ref. SILICOUL® SCR PUR BG 13.8 kV): contact us.
 - > Stainless steel braid (ref. SILICOUL® SCR PUR BI 13.8 kV): contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® SCR PUR 13.8 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.

SILICONE INSULATED AND POLYURETHANE SHEATHED MEDIUM VOLTAGE POWER CABLES



- 1 • Flexible tin-plated copper core – class 5 as per IEC 60228.
- 2 • Semi-conductor tape(s).
- 3 • Insulation: Silicone rubber.
- 4 • Electrical shielding: Tin-plated copper braid.
- 5 • Sheath: Polyurethane thermoplastic elastomer.

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: 13.8 kV.
- Test voltage: 30 kV.

Standard products

- Standard insulation colour: white.
- Standard sheath colour: black.
- Standard marking: OMERIN – SILICOUL SCR PUR 13.8 KV – {cross-section/mm²}

SILICOUL® SCR PUR 13.8 kV**Flexible core • class 5 as per IEC 60228****INSULATED WIRE OR CABLE**

| Nominal cross-section (mm²) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) | Nominal diameter (mm) | Approximate linear weight (kg/km) |
|--------------------------------|-------------------|--|--------------------------|--------------------------------------|
| 2.5 | 50 x 0.25 | 8.21 | 13.7 | 199 |
| 4 | 56 x 0.30 | 5.09 | 14.5 | 240 |
| 6 | 84 x 0.30 | 3.39 | 15.5 | 280 |
| 10 | 80 x 0.40 | 1.95 | 16.8 | 341 |
| 16 | 126 x 0.40 | 1.24 | 18.1 | 437 |
| 25 | 196 x 0.40 | 0.795 | 19.8 | 556 |
| 35 | 276 x 0.40 | 0.565 | 21.3 | 669 |
| 50 | 396 x 0.40 | 0.393 | 23.0 | 858 |
| 70 | 360 x 0.50 | 0.277 | 25.0 | 1080 |
| 95 | 485 x 0.50 | 0.210 | 26.9 | 1311 |
| 120 | 608 x 0.50 | 0.164 | 29.1 | 1593 |
| 150 | 756 x 0.50 | 0.132 | 32.0 | 2041 |
| 185 | 944 x 0.50 | 0.108 | 33.4 | 2355 |
| 240 | 1221 x 0.50 | 0.0817 | 37.4 | 3020 |
| 300 | 1525 x 0.50 | 0.0654 | 40.0 | 3614 |
| 400 | 2037 x 0.50 | 0.0495 | 44.7 | 4681 |

For this product, please contact:

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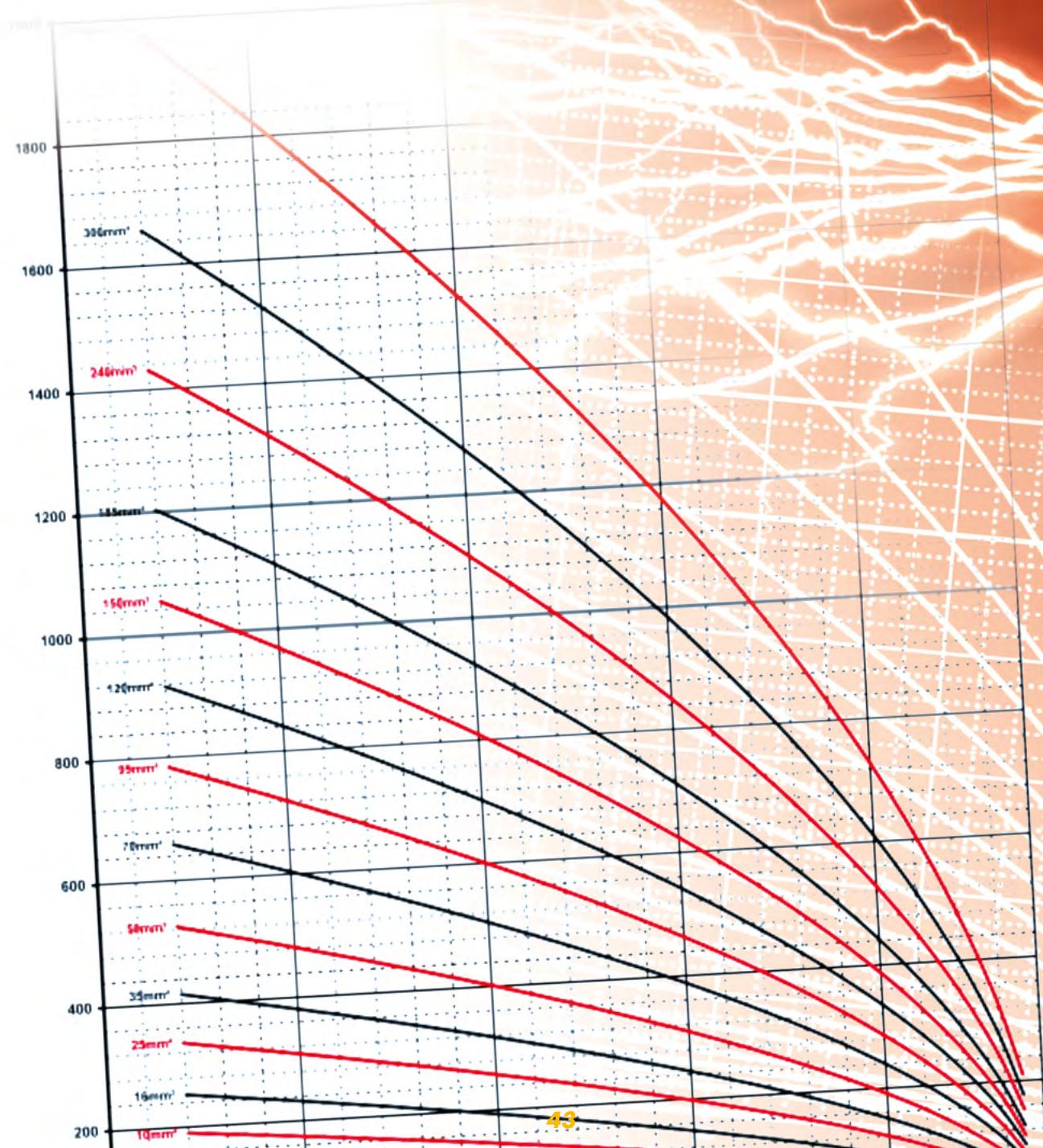
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LES CABLES DE L'EXTREME



MAXIMUM PERMISSIBLE CURRENT IN PERMANENT MODE



**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® 1.1 KV • FT 10101b

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 51 | 69 | 92 | 118 | 168 | 224 | 298 | 369 | 464 | 583 | 697 | 814 | 932 | 1070 | 1273 | 1474 | 1773 |
| 10 | 49 | 66 | 89 | 114 | 163 | 216 | 288 | 357 | 449 | 563 | 674 | 788 | 901 | 1035 | 1231 | 1426 | 1715 |
| 20 | 47 | 64 | 86 | 110 | 157 | 209 | 278 | 344 | 433 | 543 | 650 | 760 | 870 | 999 | 1189 | 1376 | 1655 |
| 30 | 45 | 62 | 82 | 106 | 151 | 201 | 268 | 331 | 417 | 523 | 626 | 732 | 838 | 962 | 1145 | 1326 | 1594 |
| 40 | 44 | 59 | 79 | 102 | 145 | 193 | 257 | 318 | 400 | 502 | 601 | 703 | 805 | 924 | 1100 | 1273 | 1531 |
| 50 | 42 | 57 | 76 | 98 | 139 | 184 | 246 | 304 | 383 | 481 | 575 | 673 | 770 | 884 | 1053 | 1219 | 1465 |
| 60 | 40 | 54 | 72 | 93 | 132 | 176 | 234 | 290 | 365 | 458 | 549 | 642 | 735 | 844 | 1005 | 1164 | 1398 |
| 70 | 38 | 51 | 68 | 88 | 126 | 167 | 223 | 275 | 347 | 435 | 521 | 610 | 699 | 802 | 956 | 1106 | 1328 |
| 80 | 36 | 48 | 65 | 83 | 119 | 158 | 210 | 260 | 328 | 411 | 492 | 576 | 661 | 758 | 904 | 1046 | 1256 |
| 90 | 33 | 45 | 61 | 78 | 111 | 148 | 197 | 244 | 308 | 386 | 463 | 542 | 621 | 712 | 850 | 983 | 1180 |
| 100 | 31 | 42 | 57 | 73 | 104 | 138 | 184 | 228 | 287 | 360 | 431 | 505 | 579 | 665 | 793 | 917 | 1101 |
| 110 | 29 | 39 | 52 | 67 | 96 | 127 | 170 | 210 | 265 | 333 | 399 | 467 | 536 | 614 | 733 | 848 | 1018 |
| 120 | 26 | 36 | 48 | 62 | 87 | 116 | 155 | 192 | 242 | 303 | 364 | 426 | 489 | 561 | 670 | 775 | 929 |
| 130 | 24 | 32 | 43 | 55 | 78 | 104 | 139 | 172 | 217 | 272 | 326 | 382 | 439 | 504 | 602 | 696 | 834 |
| 140 | 21 | 28 | 37 | 48 | 68 | 91 | 121 | 150 | 190 | 238 | 285 | 335 | 385 | 441 | 527 | 610 | 731 |
| 150 | 17 | 23 | 31 | 41 | 58 | 77 | 102 | 127 | 160 | 200 | 240 | 282 | 324 | 372 | 445 | 514 | 616 |
| 160 | 14 | 18 | 25 | 32 | 45 | 60 | 80 | 99 | 125 | 157 | 188 | 221 | 255 | 292 | 350 | 404 | 483 |
| 170 | 9 | 12 | 16 | 21 | 30 | 39 | 53 | 65 | 83 | 103 | 124 | 146 | 168 | 193 | 231 | 267 | 319 |

SILICOUL® 3.7 KV • FT 10102b

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 52 | 70 | 93 | 119 | 169 | 223 | 297 | 367 | 461 | 578 | 686 | 804 | 922 | 1064 | 1268 | 1471 | 1753 |
| 10 | 50 | 68 | 90 | 116 | 164 | 216 | 287 | 355 | 446 | 559 | 663 | 778 | 892 | 1029 | 1227 | 1423 | 1696 |
| 20 | 48 | 66 | 87 | 112 | 158 | 209 | 277 | 342 | 430 | 539 | 640 | 751 | 861 | 993 | 1184 | 1374 | 1637 |
| 30 | 47 | 63 | 84 | 107 | 152 | 201 | 267 | 329 | 414 | 519 | 617 | 723 | 829 | 957 | 1141 | 1323 | 1577 |
| 40 | 45 | 61 | 81 | 103 | 146 | 193 | 256 | 316 | 398 | 499 | 593 | 695 | 797 | 919 | 1096 | 1271 | 1515 |
| 50 | 43 | 58 | 77 | 99 | 140 | 185 | 245 | 303 | 381 | 477 | 567 | 665 | 763 | 880 | 1050 | 1217 | 1451 |
| 60 | 41 | 56 | 74 | 94 | 133 | 176 | 234 | 289 | 364 | 456 | 542 | 635 | 729 | 840 | 1002 | 1162 | 1384 |
| 70 | 39 | 53 | 70 | 90 | 127 | 168 | 222 | 275 | 346 | 433 | 515 | 604 | 693 | 798 | 952 | 1104 | 1316 |
| 80 | 37 | 50 | 66 | 85 | 120 | 158 | 210 | 260 | 327 | 409 | 487 | 571 | 655 | 755 | 901 | 1044 | 1244 |
| 90 | 35 | 47 | 62 | 80 | 113 | 149 | 198 | 244 | 307 | 385 | 458 | 537 | 616 | 710 | 847 | 982 | 1170 |
| 100 | 32 | 44 | 58 | 75 | 105 | 139 | 184 | 228 | 287 | 359 | 427 | 501 | 575 | 662 | 791 | 916 | 1092 |
| 110 | 30 | 41 | 54 | 69 | 97 | 128 | 170 | 210 | 265 | 332 | 395 | 463 | 532 | 612 | 731 | 847 | 1010 |
| 120 | 27 | 37 | 49 | 63 | 89 | 117 | 156 | 192 | 242 | 303 | 361 | 423 | 486 | 559 | 668 | 774 | 922 |
| 130 | 25 | 33 | 44 | 57 | 80 | 105 | 140 | 172 | 217 | 272 | 324 | 380 | 437 | 502 | 600 | 695 | 828 |
| 140 | 22 | 29 | 39 | 50 | 70 | 92 | 122 | 151 | 190 | 238 | 284 | 334 | 383 | 440 | 526 | 609 | 726 |
| 150 | 18 | 25 | 33 | 42 | 59 | 78 | 103 | 127 | 160 | 200 | 240 | 281 | 323 | 371 | 444 | 514 | 613 |
| 160 | 14 | 19 | 26 | 33 | 46 | 61 | 81 | 100 | 126 | 157 | 189 | 221 | 254 | 292 | 349 | 404 | 482 |
| 170 | 10 | 13 | 17 | 22 | 31 | 40 | 53 | 66 | 83 | 104 | 125 | 147 | 169 | 193 | 231 | 267 | 319 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply ($f \leq 60$ Hz).
- Maximum temperature of core: +180°C.

For this product, please contact:

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Zone Industrielle - F 63600 Ambert

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® 6.6 KV • FT 10103c

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 71 | 94 | 120 | 169 | 223 | 295 | 364 | 457 | 572 | 682 | 799 | 915 | 1053 | 1255 | 1455 | 1727 |
| 10 | 68 | 91 | 116 | 163 | 216 | 286 | 352 | 442 | 554 | 660 | 773 | 885 | 1019 | 1214 | 1408 | 1671 |
| 20 | 66 | 88 | 112 | 158 | 208 | 276 | 340 | 427 | 535 | 637 | 746 | 855 | 984 | 1173 | 1360 | 1614 |
| 30 | 64 | 85 | 108 | 152 | 201 | 266 | 328 | 411 | 515 | 614 | 719 | 824 | 948 | 1130 | 1310 | 1555 |
| 40 | 61 | 81 | 104 | 146 | 193 | 255 | 315 | 395 | 495 | 590 | 691 | 791 | 910 | 1086 | 1258 | 1494 |
| 50 | 59 | 78 | 99 | 140 | 185 | 245 | 301 | 379 | 474 | 565 | 662 | 758 | 872 | 1040 | 1205 | 1432 |
| 60 | 56 | 74 | 95 | 134 | 176 | 234 | 288 | 361 | 452 | 539 | 632 | 724 | 832 | 993 | 1151 | 1367 |
| 70 | 53 | 71 | 90 | 127 | 168 | 222 | 274 | 344 | 430 | 513 | 601 | 688 | 791 | 944 | 1094 | 1300 |
| 80 | 51 | 67 | 85 | 120 | 159 | 210 | 259 | 325 | 407 | 485 | 568 | 651 | 749 | 894 | 1035 | 1230 |
| 90 | 48 | 63 | 80 | 113 | 149 | 198 | 243 | 306 | 382 | 456 | 534 | 613 | 704 | 841 | 974 | 1157 |
| 100 | 45 | 59 | 75 | 106 | 139 | 184 | 227 | 286 | 357 | 426 | 499 | 572 | 657 | 785 | 909 | 1080 |
| 110 | 41 | 55 | 70 | 98 | 129 | 171 | 210 | 264 | 330 | 394 | 462 | 530 | 608 | 726 | 841 | 999 |
| 120 | 38 | 50 | 64 | 89 | 118 | 156 | 192 | 241 | 302 | 360 | 422 | 484 | 556 | 664 | 768 | 913 |
| 130 | 34 | 45 | 57 | 80 | 106 | 140 | 173 | 217 | 271 | 324 | 379 | 435 | 499 | 597 | 691 | 821 |
| 140 | 30 | 39 | 50 | 71 | 93 | 123 | 151 | 190 | 238 | 284 | 333 | 382 | 438 | 524 | 606 | 721 |
| 150 | 25 | 33 | 43 | 60 | 78 | 104 | 128 | 161 | 201 | 240 | 281 | 323 | 370 | 442 | 511 | 609 |
| 160 | 20 | 26 | 34 | 47 | 62 | 82 | 101 | 127 | 158 | 189 | 221 | 254 | 291 | 349 | 403 | 479 |
| 170 | 13 | 18 | 22 | 31 | 41 | 54 | 67 | 84 | 104 | 125 | 147 | 169 | 193 | 231 | 267 | 318 |

SILICOUL® 13.8 KV • FT 10104b

| | | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 71 | 94 | 120 | 168 | 221 | 292 | 359 | 451 | 561 | 670 | 785 | 896 | 1031 | 1229 | 1421 | 1690 |
| 10 | 69 | 91 | 116 | 163 | 214 | 283 | 348 | 437 | 543 | 649 | 760 | 867 | 998 | 1189 | 1376 | 1636 |
| 20 | 67 | 88 | 112 | 157 | 207 | 273 | 336 | 422 | 524 | 627 | 734 | 838 | 964 | 1149 | 1329 | 1580 |
| 30 | 64 | 85 | 108 | 152 | 199 | 263 | 324 | 406 | 505 | 604 | 707 | 808 | 929 | 1108 | 1281 | 1523 |
| 40 | 62 | 82 | 104 | 146 | 192 | 253 | 311 | 391 | 486 | 581 | 680 | 777 | 893 | 1065 | 1231 | 1464 |
| 50 | 59 | 78 | 100 | 140 | 184 | 243 | 298 | 375 | 466 | 557 | 652 | 744 | 856 | 1021 | 1180 | 1404 |
| 60 | 57 | 75 | 95 | 134 | 176 | 232 | 285 | 358 | 445 | 532 | 623 | 711 | 818 | 975 | 1127 | 1341 |
| 70 | 54 | 71 | 91 | 127 | 167 | 221 | 271 | 340 | 423 | 506 | 592 | 677 | 778 | 928 | 1072 | 1276 |
| 80 | 51 | 68 | 86 | 121 | 158 | 209 | 257 | 322 | 401 | 479 | 561 | 641 | 737 | 879 | 1015 | 1208 |
| 90 | 48 | 64 | 81 | 114 | 149 | 197 | 242 | 303 | 377 | 451 | 528 | 604 | 693 | 827 | 956 | 1137 |
| 100 | 45 | 60 | 76 | 106 | 139 | 184 | 226 | 284 | 353 | 421 | 493 | 564 | 648 | 773 | 893 | 1062 |
| 110 | 42 | 55 | 70 | 98 | 129 | 170 | 209 | 263 | 327 | 390 | 457 | 523 | 600 | 716 | 827 | 984 |
| 120 | 38 | 51 | 64 | 90 | 118 | 156 | 192 | 240 | 299 | 357 | 418 | 478 | 549 | 655 | 757 | 900 |
| 130 | 35 | 46 | 58 | 81 | 106 | 140 | 173 | 216 | 269 | 321 | 376 | 431 | 494 | 590 | 681 | 810 |
| 140 | 30 | 40 | 51 | 71 | 94 | 123 | 152 | 190 | 237 | 282 | 331 | 379 | 434 | 518 | 598 | 712 |
| 150 | 26 | 34 | 43 | 61 | 79 | 104 | 128 | 161 | 200 | 239 | 280 | 320 | 367 | 438 | 506 | 602 |
| 160 | 20 | 27 | 34 | 48 | 63 | 83 | 101 | 127 | 158 | 189 | 221 | 253 | 290 | 346 | 399 | 475 |
| 170 | 14 | 18 | 23 | 32 | 42 | 55 | 68 | 85 | 105 | 126 | 147 | 169 | 193 | 231 | 266 | 317 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply ($f \leq 60$ Hz).
- Maximum temperature of core: +180°C.

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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 some cases, for production purposes, a separating tape may be added between two successive layers. 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. ® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® STYLE 3661 - 1.1 KV • FT 10105c

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 53 | 71 | 96 | 124 | 168 | 224 | 298 | 369 | 464 | 583 | 697 | 814 | 932 | 1070 | 1273 | 1474 | 1773 |
| 10 | 52 | 69 | 92 | 120 | 163 | 216 | 288 | 357 | 449 | 563 | 674 | 788 | 901 | 1035 | 1231 | 1426 | 1715 |
| 20 | 50 | 66 | 89 | 115 | 157 | 209 | 278 | 344 | 433 | 543 | 650 | 760 | 870 | 999 | 1189 | 1376 | 1655 |
| 30 | 48 | 64 | 86 | 111 | 151 | 201 | 268 | 331 | 417 | 523 | 626 | 732 | 838 | 962 | 1145 | 1326 | 1594 |
| 40 | 46 | 61 | 82 | 107 | 145 | 193 | 257 | 318 | 400 | 502 | 601 | 703 | 805 | 924 | 1100 | 1273 | 1531 |
| 50 | 44 | 59 | 79 | 102 | 139 | 184 | 246 | 304 | 383 | 481 | 575 | 673 | 770 | 884 | 1053 | 1219 | 1465 |
| 60 | 42 | 56 | 75 | 97 | 132 | 176 | 234 | 290 | 365 | 458 | 549 | 642 | 735 | 844 | 1005 | 1164 | 1398 |
| 70 | 40 | 53 | 71 | 92 | 126 | 167 | 223 | 275 | 347 | 435 | 521 | 610 | 699 | 802 | 956 | 1106 | 1328 |
| 80 | 38 | 50 | 67 | 87 | 119 | 158 | 210 | 260 | 328 | 411 | 492 | 576 | 661 | 758 | 904 | 1046 | 1256 |
| 90 | 35 | 47 | 63 | 82 | 111 | 148 | 197 | 244 | 308 | 386 | 463 | 542 | 621 | 712 | 850 | 983 | 1180 |
| 100 | 33 | 44 | 59 | 76 | 104 | 138 | 184 | 228 | 287 | 360 | 431 | 505 | 579 | 665 | 793 | 917 | 1101 |
| 110 | 30 | 41 | 54 | 71 | 96 | 127 | 170 | 210 | 265 | 333 | 399 | 467 | 536 | 614 | 733 | 848 | 1018 |
| 120 | 28 | 37 | 50 | 64 | 87 | 116 | 155 | 192 | 242 | 303 | 364 | 426 | 489 | 561 | 670 | 775 | 929 |
| 130 | 25 | 33 | 44 | 58 | 78 | 104 | 139 | 172 | 217 | 272 | 326 | 382 | 439 | 504 | 602 | 696 | 834 |
| 140 | 22 | 29 | 39 | 50 | 68 | 91 | 121 | 150 | 190 | 238 | 285 | 335 | 385 | 441 | 527 | 610 | 731 |
| 150 | 18 | 24 | 33 | 42 | 58 | 77 | 102 | 127 | 160 | 200 | 240 | 282 | 324 | 372 | 445 | 514 | 616 |
| 160 | 14 | 19 | 26 | 33 | 45 | 60 | 80 | 99 | 125 | 157 | 188 | 221 | 255 | 292 | 350 | 404 | 483 |
| 170 | 9 | 13 | 17 | 22 | 30 | 39 | 53 | 65 | 83 | 103 | 124 | 146 | 168 | 193 | 231 | 267 | 319 |

SILICOUL® STYLE 3662 - 4.2 KV • FT 10106c

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 55 | 73 | 97 | 125 | 169 | 223 | 297 | 367 | 461 | 578 | 686 | 804 | 922 | 1064 | 1268 | 1471 | 1753 |
| 10 | 53 | 71 | 94 | 121 | 164 | 216 | 287 | 355 | 446 | 559 | 663 | 778 | 892 | 1029 | 1227 | 1423 | 1696 |
| 20 | 51 | 68 | 91 | 117 | 158 | 209 | 277 | 342 | 430 | 539 | 640 | 751 | 861 | 993 | 1184 | 1374 | 1637 |
| 30 | 49 | 66 | 88 | 112 | 152 | 201 | 267 | 329 | 414 | 519 | 617 | 723 | 829 | 957 | 1141 | 1323 | 1577 |
| 40 | 47 | 63 | 84 | 108 | 146 | 193 | 256 | 316 | 398 | 499 | 593 | 695 | 797 | 919 | 1096 | 1271 | 1515 |
| 50 | 45 | 60 | 81 | 103 | 140 | 185 | 245 | 303 | 381 | 477 | 567 | 665 | 763 | 880 | 1050 | 1217 | 1451 |
| 60 | 43 | 58 | 77 | 99 | 133 | 176 | 234 | 289 | 364 | 456 | 542 | 635 | 729 | 840 | 1002 | 1162 | 1384 |
| 70 | 41 | 55 | 73 | 94 | 127 | 168 | 222 | 275 | 346 | 433 | 515 | 604 | 693 | 798 | 952 | 1104 | 1316 |
| 80 | 39 | 52 | 69 | 89 | 120 | 158 | 210 | 260 | 327 | 409 | 487 | 571 | 655 | 755 | 901 | 1044 | 1244 |
| 90 | 37 | 49 | 65 | 83 | 113 | 149 | 198 | 244 | 307 | 385 | 458 | 537 | 616 | 710 | 847 | 982 | 1170 |
| 100 | 34 | 46 | 61 | 78 | 105 | 139 | 184 | 228 | 287 | 359 | 427 | 501 | 575 | 662 | 791 | 916 | 1092 |
| 110 | 32 | 42 | 56 | 72 | 97 | 128 | 170 | 210 | 265 | 332 | 395 | 463 | 532 | 612 | 731 | 847 | 1010 |
| 120 | 29 | 39 | 51 | 66 | 89 | 117 | 156 | 192 | 242 | 303 | 361 | 423 | 486 | 559 | 668 | 774 | 922 |
| 130 | 26 | 35 | 46 | 59 | 80 | 105 | 140 | 172 | 217 | 272 | 324 | 380 | 437 | 502 | 600 | 695 | 828 |
| 140 | 23 | 30 | 40 | 52 | 70 | 92 | 122 | 151 | 190 | 238 | 284 | 334 | 383 | 440 | 526 | 609 | 726 |
| 150 | 19 | 26 | 34 | 44 | 59 | 78 | 103 | 127 | 160 | 200 | 240 | 281 | 323 | 371 | 444 | 514 | 613 |
| 160 | 15 | 20 | 27 | 34 | 46 | 61 | 81 | 100 | 126 | 157 | 189 | 221 | 254 | 292 | 349 | 404 | 482 |
| 170 | 10 | 13 | 18 | 23 | 31 | 40 | 53 | 66 | 83 | 104 | 125 | 147 | 169 | 193 | 231 | 267 | 319 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® STYLE 3663 - 7.2 KV • FT 10107d

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 73 | 98 | 125 | 169 | 223 | 295 | 364 | 457 | 572 | 682 | 799 | 915 | 1053 | 1255 | 1455 | 1727 |
| 10 | 71 | 95 | 121 | 163 | 216 | 286 | 352 | 442 | 554 | 660 | 773 | 885 | 1019 | 1214 | 1408 | 1671 |
| 20 | 69 | 91 | 117 | 158 | 208 | 276 | 340 | 427 | 535 | 637 | 746 | 855 | 984 | 1173 | 1360 | 1614 |
| 30 | 66 | 88 | 113 | 152 | 201 | 266 | 328 | 411 | 515 | 614 | 719 | 824 | 948 | 1130 | 1310 | 1555 |
| 40 | 64 | 85 | 108 | 146 | 193 | 255 | 315 | 395 | 495 | 590 | 691 | 791 | 910 | 1086 | 1258 | 1494 |
| 50 | 61 | 81 | 104 | 140 | 185 | 245 | 301 | 379 | 474 | 565 | 662 | 758 | 872 | 1040 | 1205 | 1432 |
| 60 | 58 | 78 | 99 | 134 | 176 | 234 | 288 | 361 | 452 | 539 | 632 | 724 | 832 | 993 | 1151 | 1367 |
| 70 | 55 | 74 | 94 | 127 | 168 | 222 | 274 | 344 | 430 | 513 | 601 | 688 | 791 | 944 | 1094 | 1300 |
| 80 | 53 | 70 | 89 | 120 | 159 | 210 | 259 | 325 | 407 | 485 | 568 | 651 | 749 | 894 | 1035 | 1230 |
| 90 | 49 | 66 | 84 | 113 | 149 | 198 | 243 | 306 | 382 | 456 | 534 | 613 | 704 | 841 | 974 | 1157 |
| 100 | 46 | 61 | 79 | 106 | 139 | 184 | 227 | 286 | 357 | 426 | 499 | 572 | 657 | 785 | 909 | 1080 |
| 110 | 43 | 57 | 73 | 98 | 129 | 171 | 210 | 264 | 330 | 394 | 462 | 530 | 608 | 726 | 841 | 999 |
| 120 | 39 | 52 | 67 | 89 | 118 | 156 | 192 | 241 | 302 | 360 | 422 | 484 | 556 | 664 | 768 | 913 |
| 130 | 35 | 47 | 60 | 80 | 106 | 140 | 173 | 217 | 271 | 324 | 379 | 435 | 499 | 597 | 691 | 821 |
| 140 | 31 | 41 | 53 | 71 | 93 | 123 | 151 | 190 | 238 | 284 | 333 | 382 | 438 | 524 | 606 | 721 |
| 150 | 26 | 35 | 44 | 60 | 78 | 104 | 128 | 161 | 201 | 240 | 281 | 323 | 370 | 442 | 511 | 609 |
| 160 | 21 | 27 | 35 | 47 | 62 | 82 | 101 | 127 | 158 | 189 | 221 | 254 | 291 | 349 | 403 | 479 |
| 170 | 14 | 18 | 23 | 31 | 41 | 54 | 67 | 84 | 104 | 125 | 147 | 169 | 193 | 231 | 267 | 318 |

SILICOUL® STYLE 3664 - 15 KV • FT 10108c

| | | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 74 | 98 | 125 | 168 | 221 | 292 | 359 | 451 | 561 | 670 | 785 | 896 | 1031 | 1229 | 1421 | 1690 |
| 10 | 71 | 95 | 121 | 163 | 214 | 283 | 348 | 437 | 543 | 649 | 760 | 867 | 998 | 1189 | 1376 | 1636 |
| 20 | 69 | 92 | 117 | 157 | 207 | 273 | 336 | 422 | 524 | 627 | 734 | 838 | 964 | 1149 | 1329 | 1580 |
| 30 | 67 | 88 | 113 | 152 | 199 | 263 | 324 | 406 | 505 | 604 | 707 | 808 | 929 | 1108 | 1281 | 1523 |
| 40 | 64 | 85 | 109 | 146 | 192 | 253 | 311 | 391 | 486 | 581 | 680 | 777 | 893 | 1065 | 1231 | 1464 |
| 50 | 62 | 82 | 104 | 140 | 184 | 243 | 298 | 375 | 466 | 557 | 652 | 744 | 856 | 1021 | 1180 | 1404 |
| 60 | 59 | 78 | 100 | 134 | 176 | 232 | 285 | 358 | 445 | 532 | 623 | 711 | 818 | 975 | 1127 | 1341 |
| 70 | 56 | 74 | 95 | 127 | 167 | 221 | 271 | 340 | 423 | 506 | 592 | 677 | 778 | 928 | 1072 | 1276 |
| 80 | 53 | 70 | 90 | 121 | 158 | 209 | 257 | 322 | 401 | 479 | 561 | 641 | 737 | 879 | 1015 | 1208 |
| 90 | 50 | 66 | 85 | 114 | 149 | 197 | 242 | 303 | 377 | 451 | 528 | 604 | 693 | 827 | 956 | 1137 |
| 100 | 47 | 62 | 79 | 106 | 139 | 184 | 226 | 284 | 353 | 421 | 493 | 564 | 648 | 773 | 893 | 1062 |
| 110 | 43 | 58 | 73 | 98 | 129 | 170 | 209 | 263 | 327 | 390 | 457 | 523 | 600 | 716 | 827 | 984 |
| 120 | 40 | 53 | 67 | 90 | 118 | 156 | 192 | 240 | 299 | 357 | 418 | 478 | 549 | 655 | 757 | 900 |
| 130 | 36 | 48 | 61 | 81 | 106 | 140 | 173 | 216 | 269 | 321 | 376 | 431 | 494 | 590 | 681 | 810 |
| 140 | 32 | 42 | 53 | 71 | 94 | 123 | 152 | 190 | 237 | 282 | 331 | 379 | 434 | 518 | 598 | 712 |
| 150 | 27 | 36 | 45 | 61 | 79 | 104 | 128 | 161 | 200 | 239 | 280 | 320 | 367 | 438 | 506 | 602 |
| 160 | 21 | 28 | 36 | 48 | 63 | 83 | 101 | 127 | 158 | 189 | 221 | 253 | 290 | 346 | 399 | 475 |
| 170 | 14 | 19 | 24 | 32 | 42 | 55 | 68 | 85 | 105 | 126 | 147 | 169 | 193 | 231 | 266 | 317 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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LES CABLES DE L'EXTREME

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® ALU FLEX 1.1 KV • FT 10109b

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 40 | 55 | 73 | 94 | 133 | 176 | 237 | 296 | 373 | 469 | 561 | 659 | 780 | 872 | 1042 | 1200 | 1425 |
| 10 | 39 | 53 | 71 | 91 | 128 | 170 | 229 | 286 | 361 | 453 | 542 | 637 | 755 | 843 | 1008 | 1161 | 1378 |
| 20 | 38 | 51 | 68 | 88 | 124 | 164 | 221 | 276 | 348 | 437 | 523 | 615 | 728 | 814 | 973 | 1120 | 1330 |
| 30 | 36 | 49 | 66 | 85 | 119 | 158 | 213 | 266 | 335 | 421 | 504 | 592 | 701 | 784 | 937 | 1079 | 1281 |
| 40 | 35 | 47 | 63 | 81 | 114 | 151 | 204 | 255 | 322 | 404 | 483 | 568 | 673 | 753 | 900 | 1036 | 1230 |
| 50 | 33 | 45 | 60 | 78 | 109 | 145 | 196 | 244 | 308 | 387 | 463 | 544 | 645 | 721 | 861 | 992 | 1178 |
| 60 | 32 | 43 | 58 | 74 | 104 | 138 | 187 | 233 | 294 | 369 | 441 | 519 | 615 | 688 | 822 | 947 | 1124 |
| 70 | 30 | 41 | 55 | 70 | 99 | 131 | 177 | 221 | 279 | 350 | 419 | 493 | 584 | 653 | 781 | 899 | 1068 |
| 80 | 29 | 39 | 52 | 67 | 94 | 124 | 167 | 209 | 263 | 331 | 396 | 466 | 552 | 618 | 739 | 851 | 1010 |
| 90 | 27 | 36 | 48 | 63 | 88 | 116 | 157 | 196 | 247 | 311 | 372 | 438 | 519 | 581 | 694 | 799 | 950 |
| 100 | 25 | 34 | 45 | 58 | 82 | 108 | 147 | 183 | 231 | 290 | 347 | 408 | 484 | 542 | 648 | 746 | 886 |
| 110 | 23 | 31 | 42 | 54 | 76 | 100 | 135 | 169 | 213 | 267 | 320 | 377 | 448 | 501 | 599 | 690 | 819 |
| 120 | 21 | 28 | 38 | 49 | 69 | 91 | 123 | 154 | 194 | 244 | 292 | 344 | 409 | 457 | 547 | 630 | 748 |
| 130 | 19 | 25 | 34 | 44 | 62 | 82 | 111 | 138 | 174 | 219 | 262 | 309 | 367 | 410 | 491 | 565 | 672 |
| 140 | 16 | 22 | 30 | 39 | 54 | 72 | 97 | 121 | 152 | 191 | 229 | 271 | 321 | 360 | 430 | 495 | 588 |
| 150 | 14 | 19 | 25 | 32 | 46 | 60 | 81 | 101 | 128 | 161 | 193 | 228 | 271 | 303 | 362 | 418 | 496 |
| 160 | 11 | 15 | 20 | 25 | 36 | 47 | 64 | 79 | 100 | 126 | 151 | 179 | 212 | 238 | 285 | 328 | 390 |
| 170 | 7 | 10 | 13 | 17 | 23 | 31 | 42 | 52 | 66 | 83 | 100 | 118 | 140 | 157 | 188 | 217 | 258 |

SILICOUL® ALU FLEX 3.7 KV • FT 10110b

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 0 | 42 | 56 | 75 | 95 | 133 | 176 | 236 | 294 | 371 | 464 | 551 | 650 | 771 | 864 | 1034 | 1187 | 1413 |
| 10 | 40 | 54 | 72 | 92 | 129 | 170 | 229 | 285 | 358 | 448 | 533 | 629 | 746 | 835 | 1000 | 1149 | 1367 |
| 20 | 39 | 52 | 70 | 89 | 124 | 164 | 221 | 275 | 346 | 433 | 515 | 607 | 720 | 806 | 965 | 1109 | 1319 |
| 30 | 37 | 50 | 67 | 86 | 120 | 158 | 212 | 264 | 333 | 417 | 496 | 585 | 694 | 777 | 930 | 1068 | 1271 |
| 40 | 36 | 48 | 64 | 82 | 115 | 152 | 204 | 254 | 320 | 400 | 476 | 562 | 667 | 746 | 893 | 1026 | 1221 |
| 50 | 34 | 46 | 62 | 79 | 110 | 145 | 195 | 243 | 306 | 383 | 456 | 538 | 638 | 715 | 855 | 983 | 1169 |
| 60 | 33 | 44 | 59 | 75 | 105 | 139 | 186 | 232 | 292 | 366 | 435 | 514 | 609 | 682 | 816 | 938 | 1116 |
| 70 | 31 | 42 | 56 | 71 | 100 | 132 | 177 | 220 | 278 | 347 | 414 | 488 | 579 | 648 | 776 | 892 | 1061 |
| 80 | 30 | 40 | 53 | 68 | 94 | 125 | 167 | 208 | 262 | 328 | 391 | 462 | 548 | 613 | 734 | 843 | 1003 |
| 90 | 28 | 37 | 50 | 64 | 89 | 117 | 157 | 196 | 247 | 309 | 368 | 434 | 515 | 577 | 690 | 793 | 943 |
| 100 | 26 | 35 | 47 | 59 | 83 | 109 | 147 | 183 | 230 | 288 | 344 | 405 | 481 | 538 | 644 | 740 | 880 |
| 110 | 24 | 32 | 43 | 55 | 77 | 101 | 136 | 169 | 213 | 266 | 318 | 375 | 444 | 498 | 595 | 685 | 814 |
| 120 | 22 | 30 | 39 | 50 | 70 | 92 | 124 | 154 | 194 | 243 | 290 | 342 | 406 | 455 | 544 | 625 | 744 |
| 130 | 20 | 27 | 35 | 45 | 63 | 83 | 111 | 138 | 174 | 218 | 261 | 307 | 365 | 408 | 489 | 562 | 668 |
| 140 | 17 | 23 | 31 | 39 | 55 | 73 | 97 | 121 | 153 | 191 | 228 | 270 | 320 | 358 | 428 | 493 | 586 |
| 150 | 15 | 20 | 26 | 33 | 46 | 61 | 82 | 102 | 128 | 161 | 193 | 227 | 270 | 302 | 361 | 416 | 494 |
| 160 | 12 | 15 | 21 | 26 | 37 | 48 | 64 | 80 | 101 | 127 | 152 | 179 | 212 | 238 | 284 | 327 | 389 |
| 170 | 8 | 10 | 14 | 17 | 24 | 32 | 43 | 53 | 67 | 84 | 100 | 118 | 140 | 157 | 188 | 216 | 257 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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LES CABLES DE L'EXTREME

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® ALU FLEX 6.6 KV • FT 10111b

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 56 | 75 | 95 | 133 | 175 | 235 | 292 | 367 | 460 | 548 | 645 | 765 | 857 | 1023 | 1176 | 1391 |
| 10 | 55 | 72 | 92 | 129 | 170 | 227 | 283 | 355 | 445 | 530 | 624 | 740 | 829 | 990 | 1138 | 1346 |
| 20 | 53 | 70 | 89 | 124 | 164 | 220 | 273 | 343 | 430 | 512 | 603 | 715 | 801 | 956 | 1098 | 1300 |
| 30 | 51 | 67 | 86 | 120 | 158 | 212 | 263 | 330 | 414 | 493 | 581 | 689 | 771 | 921 | 1058 | 1252 |
| 40 | 49 | 65 | 83 | 115 | 152 | 203 | 253 | 317 | 397 | 474 | 558 | 662 | 741 | 885 | 1017 | 1203 |
| 50 | 47 | 62 | 79 | 110 | 145 | 195 | 242 | 304 | 381 | 454 | 535 | 634 | 710 | 848 | 974 | 1153 |
| 60 | 45 | 59 | 76 | 105 | 139 | 186 | 231 | 290 | 363 | 433 | 510 | 605 | 678 | 809 | 930 | 1101 |
| 70 | 43 | 56 | 72 | 100 | 132 | 177 | 220 | 276 | 345 | 412 | 485 | 575 | 644 | 769 | 884 | 1047 |
| 80 | 40 | 53 | 68 | 95 | 125 | 167 | 208 | 261 | 327 | 390 | 459 | 544 | 610 | 728 | 837 | 990 |
| 90 | 38 | 50 | 64 | 89 | 117 | 157 | 195 | 245 | 307 | 367 | 432 | 512 | 573 | 685 | 787 | 932 |
| 100 | 36 | 47 | 60 | 83 | 110 | 147 | 182 | 229 | 287 | 342 | 403 | 478 | 535 | 639 | 735 | 870 |
| 110 | 33 | 44 | 55 | 77 | 101 | 136 | 169 | 212 | 265 | 317 | 373 | 442 | 495 | 591 | 680 | 805 |
| 120 | 30 | 40 | 51 | 70 | 93 | 124 | 154 | 194 | 242 | 289 | 341 | 404 | 453 | 541 | 621 | 736 |
| 130 | 27 | 36 | 46 | 63 | 83 | 112 | 138 | 174 | 218 | 260 | 306 | 363 | 407 | 486 | 559 | 662 |
| 140 | 24 | 31 | 40 | 56 | 73 | 98 | 121 | 153 | 191 | 228 | 269 | 319 | 357 | 426 | 490 | 581 |
| 150 | 20 | 27 | 34 | 47 | 62 | 83 | 103 | 129 | 161 | 193 | 227 | 269 | 301 | 360 | 414 | 490 |
| 160 | 16 | 21 | 27 | 37 | 49 | 65 | 81 | 101 | 127 | 152 | 179 | 212 | 237 | 283 | 326 | 386 |
| 170 | 11 | 14 | 18 | 25 | 32 | 43 | 53 | 67 | 84 | 100 | 118 | 140 | 157 | 188 | 216 | 256 |

SILICOUL® ALU FLEX 13.8 KV • FT 10112b

| | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 0 | 57 | 75 | 95 | 132 | 174 | 232 | 288 | 360 | 451 | 538 | 634 | 748 | 838 | 998 | 1150 | 1363 |
| 10 | 55 | 73 | 92 | 128 | 168 | 225 | 279 | 349 | 436 | 521 | 614 | 724 | 811 | 966 | 1113 | 1320 |
| 20 | 53 | 70 | 89 | 124 | 163 | 217 | 269 | 337 | 421 | 503 | 593 | 699 | 783 | 933 | 1075 | 1275 |
| 30 | 51 | 68 | 86 | 119 | 157 | 210 | 260 | 325 | 406 | 485 | 572 | 674 | 755 | 899 | 1036 | 1229 |
| 40 | 49 | 65 | 83 | 115 | 151 | 201 | 250 | 312 | 390 | 466 | 550 | 648 | 726 | 864 | 996 | 1181 |
| 50 | 47 | 63 | 79 | 110 | 145 | 193 | 239 | 299 | 374 | 447 | 527 | 621 | 696 | 829 | 955 | 1132 |
| 60 | 45 | 60 | 76 | 105 | 138 | 185 | 229 | 286 | 358 | 427 | 503 | 594 | 665 | 792 | 912 | 1082 |
| 70 | 43 | 57 | 72 | 100 | 132 | 176 | 218 | 272 | 340 | 406 | 479 | 565 | 632 | 753 | 868 | 1029 |
| 80 | 41 | 54 | 69 | 95 | 125 | 166 | 206 | 258 | 322 | 385 | 453 | 535 | 599 | 713 | 822 | 974 |
| 90 | 38 | 51 | 65 | 89 | 117 | 157 | 194 | 243 | 303 | 362 | 427 | 503 | 564 | 671 | 773 | 917 |
| 100 | 36 | 48 | 60 | 84 | 110 | 146 | 181 | 227 | 283 | 338 | 399 | 470 | 527 | 627 | 723 | 857 |
| 110 | 33 | 44 | 56 | 78 | 102 | 136 | 168 | 210 | 262 | 313 | 369 | 436 | 488 | 581 | 669 | 793 |
| 120 | 31 | 40 | 51 | 71 | 93 | 124 | 154 | 192 | 240 | 287 | 338 | 399 | 446 | 532 | 612 | 726 |
| 130 | 28 | 36 | 46 | 64 | 84 | 112 | 138 | 173 | 216 | 258 | 304 | 359 | 402 | 479 | 551 | 653 |
| 140 | 24 | 32 | 41 | 56 | 74 | 98 | 122 | 152 | 190 | 227 | 267 | 315 | 353 | 421 | 484 | 574 |
| 150 | 21 | 27 | 35 | 48 | 62 | 83 | 103 | 129 | 161 | 192 | 226 | 267 | 299 | 356 | 410 | 486 |
| 160 | 16 | 22 | 27 | 38 | 49 | 66 | 81 | 102 | 127 | 151 | 178 | 211 | 236 | 281 | 323 | 383 |
| 170 | 11 | 14 | 18 | 25 | 33 | 44 | 54 | 68 | 85 | 101 | 119 | 140 | 157 | 187 | 215 | 255 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply ($F \leq 60$ Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® SCR 1.1 KV • FT 10113a

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 54 | 73 | 96 | 123 | 173 | 228 | 301 | 369 | 463 | 575 | 683 | 800 | 910 | 1039 | 1232 | 1419 | 1703 |
| 10 | 52 | 70 | 93 | 119 | 167 | 221 | 291 | 357 | 449 | 557 | 661 | 774 | 881 | 1006 | 1193 | 1374 | 1648 |
| 20 | 50 | 68 | 90 | 115 | 162 | 213 | 281 | 345 | 433 | 538 | 639 | 748 | 851 | 971 | 1153 | 1328 | 1592 |
| 30 | 48 | 65 | 87 | 111 | 156 | 205 | 271 | 333 | 417 | 518 | 615 | 721 | 820 | 936 | 1111 | 1280 | 1535 |
| 40 | 47 | 63 | 83 | 106 | 150 | 197 | 260 | 320 | 401 | 498 | 592 | 693 | 789 | 900 | 1069 | 1231 | 1476 |
| 50 | 45 | 60 | 80 | 102 | 143 | 189 | 249 | 306 | 384 | 477 | 567 | 664 | 756 | 863 | 1025 | 1180 | 1415 |
| 60 | 43 | 57 | 76 | 97 | 137 | 180 | 238 | 292 | 367 | 456 | 542 | 634 | 722 | 824 | 979 | 1127 | 1352 |
| 70 | 41 | 55 | 73 | 92 | 130 | 172 | 226 | 278 | 349 | 434 | 515 | 603 | 687 | 784 | 932 | 1073 | 1286 |
| 80 | 38 | 52 | 69 | 87 | 123 | 162 | 214 | 263 | 330 | 410 | 488 | 571 | 651 | 743 | 883 | 1016 | 1218 |
| 90 | 36 | 49 | 65 | 82 | 116 | 153 | 201 | 247 | 311 | 386 | 459 | 537 | 613 | 699 | 831 | 957 | 1147 |
| 100 | 34 | 45 | 60 | 77 | 108 | 142 | 188 | 231 | 290 | 361 | 429 | 502 | 573 | 654 | 777 | 895 | 1072 |
| 110 | 31 | 42 | 56 | 71 | 100 | 132 | 174 | 214 | 269 | 334 | 397 | 465 | 530 | 605 | 720 | 829 | 992 |
| 120 | 28 | 38 | 51 | 65 | 91 | 120 | 159 | 195 | 246 | 305 | 363 | 425 | 485 | 554 | 659 | 759 | 908 |
| 130 | 26 | 35 | 46 | 58 | 82 | 108 | 143 | 176 | 221 | 275 | 327 | 382 | 437 | 498 | 593 | 683 | 818 |
| 140 | 22 | 30 | 40 | 51 | 72 | 95 | 125 | 154 | 194 | 241 | 287 | 336 | 384 | 438 | 522 | 601 | 719 |
| 150 | 19 | 26 | 34 | 43 | 61 | 80 | 106 | 130 | 164 | 204 | 243 | 284 | 325 | 371 | 442 | 509 | 608 |
| 160 | 15 | 20 | 27 | 34 | 48 | 63 | 83 | 103 | 129 | 161 | 192 | 224 | 257 | 293 | 349 | 402 | 480 |
| 170 | 10 | 13 | 18 | 23 | 32 | 42 | 55 | 68 | 86 | 107 | 127 | 149 | 171 | 195 | 233 | 268 | 320 |

SILICOUL® SCR 3.7 KV • FT 10114a

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 54 | 72 | 96 | 122 | 172 | 226 | 298 | 366 | 457 | 570 | 675 | 787 | 898 | 1030 | 1228 | 1417 | 1685 |
| 10 | 52 | 70 | 93 | 118 | 166 | 219 | 288 | 354 | 443 | 552 | 654 | 762 | 870 | 997 | 1189 | 1372 | 1631 |
| 20 | 50 | 68 | 90 | 114 | 161 | 211 | 279 | 342 | 428 | 533 | 632 | 736 | 840 | 964 | 1149 | 1325 | 1576 |
| 30 | 49 | 65 | 87 | 110 | 155 | 204 | 268 | 330 | 412 | 514 | 609 | 710 | 810 | 929 | 1108 | 1278 | 1519 |
| 40 | 47 | 63 | 83 | 106 | 149 | 196 | 258 | 317 | 396 | 494 | 585 | 683 | 779 | 893 | 1065 | 1229 | 1461 |
| 50 | 45 | 60 | 80 | 102 | 143 | 188 | 247 | 304 | 380 | 474 | 561 | 655 | 747 | 856 | 1021 | 1178 | 1401 |
| 60 | 43 | 58 | 76 | 97 | 136 | 179 | 236 | 290 | 363 | 453 | 536 | 625 | 714 | 818 | 976 | 1126 | 1339 |
| 70 | 41 | 55 | 73 | 92 | 130 | 170 | 225 | 276 | 345 | 431 | 510 | 595 | 680 | 779 | 929 | 1071 | 1274 |
| 80 | 39 | 52 | 69 | 88 | 123 | 161 | 213 | 261 | 327 | 408 | 483 | 564 | 644 | 738 | 880 | 1015 | 1207 |
| 90 | 36 | 49 | 65 | 83 | 116 | 152 | 200 | 246 | 308 | 384 | 455 | 531 | 606 | 695 | 829 | 956 | 1136 |
| 100 | 34 | 46 | 61 | 77 | 108 | 142 | 187 | 230 | 288 | 359 | 425 | 496 | 567 | 649 | 775 | 893 | 1063 |
| 110 | 32 | 42 | 56 | 72 | 100 | 131 | 173 | 213 | 267 | 332 | 394 | 460 | 525 | 602 | 718 | 828 | 984 |
| 120 | 29 | 39 | 51 | 65 | 92 | 120 | 159 | 195 | 244 | 304 | 361 | 421 | 481 | 551 | 657 | 758 | 901 |
| 130 | 26 | 35 | 46 | 59 | 83 | 108 | 143 | 175 | 220 | 274 | 325 | 379 | 433 | 496 | 592 | 683 | 812 |
| 140 | 23 | 31 | 41 | 52 | 73 | 95 | 125 | 154 | 193 | 240 | 286 | 333 | 381 | 436 | 521 | 600 | 714 |
| 150 | 19 | 26 | 34 | 44 | 61 | 81 | 106 | 130 | 163 | 203 | 242 | 282 | 323 | 369 | 441 | 508 | 605 |
| 160 | 15 | 21 | 27 | 35 | 49 | 64 | 84 | 103 | 129 | 161 | 191 | 223 | 256 | 292 | 349 | 402 | 478 |
| 170 | 10 | 14 | 18 | 23 | 32 | 42 | 56 | 68 | 86 | 107 | 127 | 149 | 171 | 195 | 233 | 268 | 319 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® SCR 6.6 KV • FT 10115b

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 73 | 96 | 122 | 172 | 225 | 297 | 364 | 455 | 566 | 673 | 784 | 894 | 1027 | 1218 | 1407 | 1657 |
| 10 | 71 | 93 | 118 | 166 | 218 | 288 | 352 | 440 | 548 | 651 | 760 | 866 | 994 | 1179 | 1362 | 1604 |
| 20 | 68 | 90 | 115 | 161 | 211 | 278 | 341 | 425 | 529 | 629 | 734 | 837 | 961 | 1140 | 1317 | 1551 |
| 30 | 66 | 87 | 110 | 155 | 203 | 268 | 328 | 410 | 510 | 607 | 708 | 807 | 926 | 1099 | 1270 | 1496 |
| 40 | 63 | 84 | 106 | 149 | 196 | 258 | 316 | 394 | 491 | 584 | 681 | 776 | 891 | 1057 | 1221 | 1439 |
| 50 | 61 | 80 | 102 | 143 | 188 | 247 | 303 | 378 | 471 | 560 | 653 | 744 | 854 | 1014 | 1171 | 1380 |
| 60 | 58 | 77 | 97 | 137 | 179 | 236 | 290 | 362 | 450 | 535 | 624 | 712 | 816 | 969 | 1119 | 1319 |
| 70 | 55 | 73 | 93 | 130 | 171 | 225 | 276 | 344 | 428 | 509 | 594 | 677 | 777 | 923 | 1065 | 1256 |
| 80 | 52 | 69 | 88 | 123 | 162 | 213 | 261 | 326 | 406 | 482 | 563 | 642 | 736 | 874 | 1010 | 1190 |
| 90 | 49 | 65 | 83 | 116 | 152 | 200 | 246 | 307 | 382 | 454 | 530 | 605 | 694 | 824 | 951 | 1121 |
| 100 | 46 | 61 | 78 | 109 | 142 | 187 | 230 | 287 | 357 | 425 | 496 | 566 | 649 | 771 | 889 | 1049 |
| 110 | 43 | 57 | 72 | 101 | 132 | 174 | 213 | 266 | 331 | 394 | 459 | 524 | 601 | 714 | 824 | 973 |
| 120 | 39 | 52 | 66 | 92 | 121 | 159 | 195 | 244 | 303 | 361 | 421 | 480 | 551 | 654 | 755 | 891 |
| 130 | 36 | 47 | 59 | 83 | 109 | 143 | 176 | 220 | 273 | 325 | 379 | 433 | 496 | 590 | 680 | 803 |
| 140 | 31 | 41 | 52 | 73 | 96 | 126 | 155 | 193 | 240 | 286 | 333 | 381 | 436 | 519 | 599 | 707 |
| 150 | 27 | 35 | 44 | 62 | 81 | 107 | 131 | 164 | 204 | 242 | 283 | 323 | 370 | 440 | 507 | 600 |
| 160 | 21 | 28 | 35 | 49 | 64 | 84 | 104 | 130 | 161 | 192 | 224 | 256 | 293 | 349 | 402 | 475 |
| 170 | 14 | 19 | 24 | 33 | 43 | 56 | 69 | 87 | 108 | 128 | 150 | 171 | 196 | 233 | 269 | 318 |

SILICOUL® SCR 13.8 KV • FT 10116a

| | | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 73 | 96 | 122 | 171 | 224 | 294 | 360 | 450 | 558 | 664 | 774 | 883 | 1015 | 1203 | 1385 | 1628 |
| 10 | 71 | 93 | 118 | 165 | 217 | 285 | 349 | 436 | 541 | 643 | 749 | 855 | 983 | 1166 | 1342 | 1577 |
| 20 | 68 | 90 | 114 | 160 | 210 | 276 | 337 | 421 | 523 | 622 | 725 | 827 | 950 | 1127 | 1297 | 1525 |
| 30 | 66 | 87 | 110 | 154 | 203 | 266 | 325 | 406 | 504 | 600 | 699 | 797 | 917 | 1087 | 1251 | 1471 |
| 40 | 63 | 84 | 106 | 148 | 195 | 256 | 313 | 391 | 485 | 577 | 672 | 767 | 882 | 1046 | 1204 | 1416 |
| 50 | 61 | 80 | 102 | 142 | 187 | 246 | 300 | 375 | 465 | 554 | 645 | 736 | 846 | 1003 | 1155 | 1358 |
| 60 | 58 | 77 | 97 | 136 | 179 | 235 | 287 | 359 | 445 | 530 | 617 | 704 | 809 | 959 | 1104 | 1299 |
| 70 | 55 | 73 | 93 | 130 | 170 | 224 | 274 | 342 | 424 | 504 | 587 | 671 | 770 | 914 | 1052 | 1237 |
| 80 | 53 | 69 | 88 | 123 | 162 | 212 | 259 | 324 | 402 | 478 | 557 | 636 | 730 | 866 | 997 | 1173 |
| 90 | 50 | 66 | 83 | 116 | 152 | 200 | 244 | 305 | 379 | 451 | 525 | 599 | 688 | 816 | 939 | 1106 |
| 100 | 47 | 61 | 78 | 109 | 143 | 187 | 229 | 286 | 354 | 422 | 491 | 561 | 644 | 764 | 879 | 1035 |
| 110 | 43 | 57 | 72 | 101 | 132 | 174 | 212 | 265 | 329 | 391 | 456 | 520 | 597 | 709 | 815 | 961 |
| 120 | 40 | 52 | 66 | 93 | 121 | 159 | 195 | 243 | 301 | 358 | 418 | 477 | 547 | 650 | 747 | 881 |
| 130 | 36 | 47 | 60 | 83 | 110 | 144 | 176 | 219 | 272 | 323 | 377 | 430 | 493 | 586 | 674 | 795 |
| 140 | 32 | 42 | 53 | 74 | 97 | 127 | 155 | 193 | 240 | 285 | 332 | 379 | 435 | 516 | 594 | 701 |
| 150 | 27 | 35 | 45 | 63 | 82 | 108 | 132 | 164 | 203 | 242 | 282 | 322 | 369 | 438 | 504 | 595 |
| 160 | 21 | 28 | 36 | 50 | 65 | 85 | 104 | 130 | 161 | 192 | 224 | 256 | 292 | 348 | 400 | 472 |
| 170 | 14 | 19 | 24 | 33 | 44 | 57 | 70 | 87 | 108 | 129 | 150 | 172 | 196 | 233 | 268 | 317 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® DI 1.1 KV • FT 10201a

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 50 | 68 | 92 | 118 | 168 | 224 | 299 | 370 | 467 | 584 | 701 | 824 | 943 | 1085 | 1307 | 1506 |
| 10 | 49 | 66 | 89 | 114 | 163 | 216 | 289 | 358 | 451 | 565 | 677 | 796 | 911 | 1049 | 1263 | 1456 |
| 20 | 47 | 64 | 86 | 110 | 157 | 208 | 278 | 345 | 435 | 545 | 653 | 768 | 879 | 1012 | 1219 | 1405 |
| 30 | 45 | 61 | 82 | 106 | 151 | 201 | 268 | 332 | 419 | 524 | 629 | 739 | 847 | 974 | 1173 | 1352 |
| 40 | 43 | 59 | 79 | 102 | 145 | 192 | 257 | 318 | 402 | 503 | 604 | 710 | 813 | 935 | 1126 | 1298 |
| 50 | 41 | 56 | 76 | 97 | 138 | 184 | 246 | 305 | 385 | 482 | 578 | 679 | 778 | 895 | 1078 | 1242 |
| 60 | 39 | 54 | 72 | 93 | 132 | 175 | 234 | 290 | 367 | 459 | 551 | 647 | 742 | 854 | 1028 | 1185 |
| 70 | 37 | 51 | 68 | 88 | 125 | 167 | 222 | 276 | 348 | 436 | 523 | 615 | 705 | 811 | 976 | 1125 |
| 80 | 35 | 48 | 65 | 83 | 118 | 157 | 210 | 260 | 329 | 412 | 494 | 581 | 666 | 766 | 922 | 1064 |
| 90 | 33 | 45 | 61 | 78 | 111 | 148 | 197 | 244 | 309 | 387 | 464 | 546 | 626 | 720 | 866 | 999 |
| 100 | 31 | 42 | 57 | 73 | 103 | 138 | 184 | 228 | 288 | 361 | 433 | 509 | 584 | 671 | 808 | 931 |
| 110 | 29 | 39 | 52 | 67 | 95 | 127 | 170 | 210 | 266 | 333 | 399 | 470 | 539 | 620 | 746 | 860 |
| 120 | 26 | 35 | 48 | 61 | 87 | 116 | 155 | 191 | 242 | 304 | 364 | 428 | 492 | 565 | 680 | 785 |
| 130 | 23 | 32 | 43 | 55 | 78 | 104 | 138 | 172 | 217 | 272 | 327 | 384 | 441 | 507 | 610 | 704 |
| 140 | 20 | 28 | 37 | 48 | 68 | 91 | 121 | 150 | 190 | 238 | 286 | 336 | 386 | 444 | 534 | 616 |
| 150 | 17 | 23 | 31 | 40 | 57 | 76 | 102 | 126 | 159 | 200 | 240 | 283 | 325 | 373 | 449 | 518 |
| 160 | 13 | 18 | 25 | 32 | 45 | 60 | 80 | 99 | 125 | 157 | 188 | 221 | 255 | 293 | 352 | 406 |
| 170 | 9 | 12 | 16 | 21 | 29 | 39 | 52 | 65 | 82 | 103 | 124 | 146 | 168 | 193 | 232 | 268 |

SILICOUL® DI 3.7 KV • FT 10202a

| | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 0 | 52 | 70 | 93 | 119 | 169 | 224 | 298 | 368 | 463 | 580 | 692 | 812 | 932 | 1076 | 1283 | 1490 |
| 10 | 50 | 68 | 90 | 115 | 163 | 216 | 288 | 355 | 447 | 561 | 670 | 786 | 901 | 1041 | 1241 | 1441 |
| 20 | 48 | 65 | 87 | 111 | 158 | 209 | 278 | 343 | 432 | 542 | 646 | 758 | 870 | 1004 | 1198 | 1390 |
| 30 | 47 | 63 | 84 | 107 | 152 | 201 | 267 | 330 | 416 | 521 | 622 | 730 | 838 | 967 | 1154 | 1339 |
| 40 | 45 | 60 | 80 | 103 | 146 | 193 | 257 | 317 | 399 | 501 | 598 | 701 | 805 | 929 | 1108 | 1285 |
| 50 | 43 | 58 | 77 | 99 | 140 | 185 | 246 | 303 | 382 | 479 | 572 | 671 | 770 | 889 | 1061 | 1231 |
| 60 | 41 | 55 | 73 | 94 | 133 | 176 | 234 | 289 | 365 | 457 | 546 | 640 | 735 | 848 | 1012 | 1174 |
| 70 | 39 | 52 | 70 | 89 | 126 | 167 | 223 | 275 | 346 | 434 | 519 | 609 | 699 | 806 | 962 | 1115 |
| 80 | 37 | 50 | 66 | 85 | 120 | 158 | 210 | 260 | 327 | 410 | 490 | 575 | 661 | 761 | 909 | 1054 |
| 90 | 35 | 47 | 62 | 79 | 112 | 149 | 198 | 244 | 308 | 386 | 461 | 541 | 621 | 716 | 855 | 991 |
| 100 | 32 | 44 | 58 | 74 | 105 | 139 | 184 | 228 | 287 | 360 | 430 | 504 | 579 | 667 | 798 | 924 |
| 110 | 30 | 40 | 53 | 69 | 97 | 128 | 170 | 210 | 265 | 332 | 397 | 466 | 536 | 617 | 737 | 854 |
| 120 | 27 | 37 | 49 | 63 | 88 | 117 | 155 | 192 | 242 | 303 | 363 | 426 | 489 | 563 | 673 | 780 |
| 130 | 24 | 33 | 44 | 56 | 79 | 105 | 139 | 172 | 217 | 272 | 325 | 382 | 439 | 505 | 604 | 700 |
| 140 | 21 | 29 | 38 | 49 | 69 | 92 | 122 | 151 | 190 | 238 | 285 | 335 | 385 | 442 | 529 | 613 |
| 150 | 18 | 24 | 32 | 41 | 59 | 77 | 103 | 127 | 160 | 200 | 240 | 282 | 324 | 372 | 446 | 516 |
| 160 | 14 | 19 | 25 | 33 | 46 | 61 | 81 | 100 | 126 | 157 | 189 | 221 | 255 | 292 | 351 | 405 |
| 170 | 9 | 13 | 17 | 22 | 30 | 40 | 53 | 66 | 83 | 104 | 124 | 146 | 168 | 193 | 232 | 267 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply ($F \leq 60$ Hz).
- Maximum temperature of core: +180°C.

For this product, please contact:

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® DI 6.6 KV • FT 10203b

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 71 | 94 | 120 | 169 | 223 | 296 | 365 | 459 | 575 | 689 | 807 | 925 | 1065 | 1270 | 1473 |
| 10 | 68 | 91 | 116 | 164 | 216 | 287 | 353 | 444 | 556 | 666 | 781 | 895 | 1030 | 1228 | 1425 |
| 20 | 66 | 88 | 112 | 158 | 208 | 277 | 341 | 429 | 537 | 643 | 753 | 864 | 994 | 1186 | 1376 |
| 30 | 64 | 84 | 108 | 152 | 201 | 266 | 328 | 413 | 517 | 619 | 726 | 832 | 958 | 1142 | 1325 |
| 40 | 61 | 81 | 104 | 146 | 193 | 256 | 315 | 397 | 497 | 595 | 697 | 799 | 920 | 1097 | 1273 |
| 50 | 59 | 78 | 99 | 140 | 185 | 245 | 302 | 380 | 476 | 570 | 668 | 765 | 881 | 1051 | 1219 |
| 60 | 56 | 74 | 95 | 134 | 176 | 234 | 288 | 362 | 454 | 543 | 637 | 731 | 841 | 1003 | 1163 |
| 70 | 53 | 71 | 90 | 127 | 168 | 222 | 274 | 345 | 431 | 517 | 605 | 694 | 799 | 954 | 1105 |
| 80 | 50 | 67 | 85 | 120 | 159 | 210 | 259 | 326 | 408 | 488 | 573 | 657 | 755 | 902 | 1045 |
| 90 | 47 | 63 | 80 | 113 | 149 | 198 | 244 | 306 | 384 | 459 | 538 | 618 | 710 | 848 | 983 |
| 100 | 44 | 59 | 75 | 106 | 139 | 184 | 227 | 286 | 358 | 429 | 502 | 576 | 663 | 792 | 917 |
| 110 | 41 | 54 | 69 | 98 | 129 | 171 | 210 | 265 | 331 | 396 | 464 | 533 | 613 | 732 | 848 |
| 120 | 37 | 50 | 63 | 89 | 118 | 156 | 192 | 242 | 302 | 362 | 424 | 487 | 560 | 669 | 774 |
| 130 | 34 | 45 | 57 | 80 | 106 | 140 | 173 | 217 | 271 | 325 | 381 | 438 | 502 | 601 | 695 |
| 140 | 30 | 39 | 50 | 70 | 93 | 123 | 151 | 190 | 238 | 285 | 334 | 384 | 440 | 527 | 610 |
| 150 | 25 | 33 | 42 | 59 | 78 | 103 | 128 | 161 | 201 | 240 | 282 | 324 | 371 | 444 | 514 |
| 160 | 20 | 26 | 33 | 47 | 61 | 81 | 100 | 126 | 158 | 189 | 221 | 255 | 292 | 350 | 404 |
| 170 | 13 | 17 | 22 | 31 | 41 | 54 | 66 | 84 | 104 | 125 | 146 | 169 | 193 | 231 | 267 |

SILICOUL® DI 13.8 KV • FT 10204a

| | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 0 | 71 | 94 | 120 | 168 | 221 | 293 | 360 | 453 | 565 | 676 | 792 | 904 | 1042 | 1241 | 1436 |
| 10 | 69 | 91 | 116 | 163 | 214 | 283 | 349 | 438 | 547 | 654 | 766 | 875 | 1008 | 1201 | 1390 |
| 20 | 66 | 88 | 112 | 157 | 207 | 274 | 337 | 423 | 528 | 632 | 740 | 845 | 973 | 1160 | 1342 |
| 30 | 64 | 85 | 108 | 152 | 200 | 264 | 325 | 408 | 509 | 609 | 713 | 815 | 938 | 1118 | 1293 |
| 40 | 62 | 82 | 104 | 146 | 192 | 254 | 312 | 392 | 489 | 585 | 686 | 783 | 902 | 1075 | 1243 |
| 50 | 59 | 78 | 100 | 140 | 184 | 243 | 299 | 376 | 469 | 561 | 657 | 751 | 864 | 1030 | 1191 |
| 60 | 57 | 75 | 95 | 134 | 176 | 232 | 286 | 359 | 448 | 536 | 627 | 717 | 825 | 984 | 1138 |
| 70 | 54 | 71 | 91 | 127 | 167 | 221 | 272 | 341 | 426 | 509 | 597 | 682 | 785 | 936 | 1082 |
| 80 | 51 | 68 | 86 | 121 | 158 | 209 | 257 | 323 | 403 | 482 | 565 | 646 | 742 | 886 | 1024 |
| 90 | 48 | 64 | 81 | 114 | 149 | 197 | 242 | 304 | 379 | 454 | 531 | 608 | 699 | 834 | 964 |
| 100 | 45 | 60 | 76 | 106 | 139 | 184 | 226 | 284 | 354 | 424 | 496 | 568 | 653 | 779 | 900 |
| 110 | 42 | 55 | 70 | 98 | 129 | 170 | 210 | 263 | 328 | 392 | 459 | 526 | 604 | 721 | 833 |
| 120 | 38 | 51 | 64 | 90 | 118 | 156 | 192 | 241 | 300 | 359 | 420 | 481 | 552 | 659 | 762 |
| 130 | 34 | 46 | 58 | 81 | 106 | 140 | 173 | 217 | 270 | 323 | 378 | 433 | 497 | 593 | 685 |
| 140 | 30 | 40 | 51 | 71 | 94 | 123 | 152 | 190 | 237 | 283 | 332 | 380 | 436 | 521 | 602 |
| 150 | 26 | 34 | 43 | 60 | 79 | 104 | 128 | 161 | 200 | 239 | 280 | 321 | 368 | 440 | 508 |
| 160 | 20 | 27 | 34 | 48 | 63 | 82 | 101 | 127 | 158 | 189 | 221 | 254 | 290 | 347 | 401 |
| 170 | 14 | 18 | 23 | 32 | 42 | 55 | 67 | 84 | 105 | 125 | 147 | 169 | 193 | 231 | 266 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

For this product, please contact:

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LES CABLES DE L'EXTREME

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® DI STYLE 3661 - 1.1 KV • FT 10205a

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 53 | 71 | 96 | 123 | 168 | 224 | 299 | 370 | 467 | 584 | 701 | 824 | 943 | 1085 | 1307 | 1506 |
| 10 | 52 | 68 | 92 | 119 | 163 | 216 | 289 | 358 | 451 | 565 | 677 | 796 | 911 | 1049 | 1263 | 1456 |
| 20 | 50 | 66 | 89 | 115 | 157 | 208 | 278 | 345 | 435 | 545 | 653 | 768 | 879 | 1012 | 1219 | 1405 |
| 30 | 48 | 64 | 86 | 111 | 151 | 201 | 268 | 332 | 419 | 524 | 629 | 739 | 847 | 974 | 1173 | 1352 |
| 40 | 46 | 61 | 82 | 106 | 145 | 192 | 257 | 318 | 402 | 503 | 604 | 710 | 813 | 935 | 1126 | 1298 |
| 50 | 44 | 58 | 79 | 102 | 138 | 184 | 246 | 305 | 385 | 482 | 578 | 679 | 778 | 895 | 1078 | 1242 |
| 60 | 42 | 56 | 75 | 97 | 132 | 175 | 234 | 290 | 367 | 459 | 551 | 647 | 742 | 854 | 1028 | 1185 |
| 70 | 40 | 53 | 71 | 92 | 125 | 167 | 222 | 276 | 348 | 436 | 523 | 615 | 705 | 811 | 976 | 1125 |
| 80 | 38 | 50 | 67 | 87 | 118 | 157 | 210 | 260 | 329 | 412 | 494 | 581 | 666 | 766 | 922 | 1064 |
| 90 | 35 | 47 | 63 | 82 | 111 | 148 | 197 | 244 | 309 | 387 | 464 | 546 | 626 | 720 | 866 | 999 |
| 100 | 33 | 44 | 59 | 76 | 103 | 138 | 184 | 228 | 288 | 361 | 433 | 509 | 584 | 671 | 808 | 931 |
| 110 | 30 | 40 | 54 | 70 | 95 | 127 | 170 | 210 | 266 | 333 | 399 | 470 | 539 | 620 | 746 | 860 |
| 120 | 28 | 37 | 50 | 64 | 87 | 116 | 155 | 191 | 242 | 304 | 364 | 428 | 492 | 565 | 680 | 785 |
| 130 | 25 | 33 | 44 | 57 | 78 | 104 | 138 | 172 | 217 | 272 | 327 | 384 | 441 | 507 | 610 | 704 |
| 140 | 22 | 29 | 39 | 50 | 68 | 91 | 121 | 150 | 190 | 238 | 286 | 336 | 386 | 444 | 534 | 616 |
| 150 | 18 | 24 | 33 | 42 | 57 | 76 | 102 | 126 | 159 | 200 | 240 | 283 | 325 | 373 | 449 | 518 |
| 160 | 14 | 19 | 26 | 33 | 45 | 60 | 80 | 99 | 125 | 157 | 188 | 221 | 255 | 293 | 352 | 406 |
| 170 | 9 | 12 | 17 | 22 | 29 | 39 | 52 | 65 | 82 | 103 | 124 | 146 | 168 | 193 | 232 | 268 |

b

SILICOUL® DI STYLE 3662 - 4.2 KV • FT 10206b

| | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 0 | 55 | 73 | 97 | 125 | 169 | 224 | 298 | 368 | 463 | 580 | 692 | 812 | 932 | 1076 | 1283 | 1490 |
| 10 | 53 | 70 | 94 | 121 | 163 | 216 | 288 | 355 | 447 | 561 | 670 | 786 | 901 | 1041 | 1241 | 1441 |
| 20 | 51 | 68 | 91 | 116 | 158 | 209 | 278 | 343 | 432 | 542 | 646 | 758 | 870 | 1004 | 1198 | 1390 |
| 30 | 49 | 65 | 87 | 112 | 152 | 201 | 267 | 330 | 416 | 521 | 622 | 730 | 838 | 967 | 1154 | 1339 |
| 40 | 47 | 63 | 84 | 108 | 146 | 193 | 257 | 317 | 399 | 501 | 598 | 701 | 805 | 929 | 1108 | 1285 |
| 50 | 45 | 60 | 80 | 103 | 140 | 185 | 246 | 303 | 382 | 479 | 572 | 671 | 770 | 889 | 1061 | 1231 |
| 60 | 43 | 57 | 77 | 98 | 133 | 176 | 234 | 289 | 365 | 457 | 546 | 640 | 735 | 848 | 1012 | 1174 |
| 70 | 41 | 55 | 73 | 93 | 126 | 167 | 223 | 275 | 346 | 434 | 519 | 609 | 699 | 806 | 962 | 1115 |
| 80 | 39 | 52 | 69 | 88 | 120 | 158 | 210 | 260 | 327 | 410 | 490 | 575 | 661 | 761 | 909 | 1054 |
| 90 | 37 | 48 | 65 | 83 | 112 | 149 | 198 | 244 | 308 | 386 | 461 | 541 | 621 | 716 | 855 | 991 |
| 100 | 34 | 45 | 60 | 78 | 105 | 139 | 184 | 228 | 287 | 360 | 430 | 504 | 579 | 667 | 798 | 924 |
| 110 | 32 | 42 | 56 | 72 | 97 | 128 | 170 | 210 | 265 | 332 | 397 | 466 | 536 | 617 | 737 | 854 |
| 120 | 29 | 38 | 51 | 65 | 88 | 117 | 155 | 192 | 242 | 303 | 363 | 426 | 489 | 563 | 673 | 780 |
| 130 | 26 | 34 | 46 | 59 | 79 | 105 | 139 | 172 | 217 | 272 | 325 | 382 | 439 | 505 | 604 | 700 |
| 140 | 23 | 30 | 40 | 51 | 69 | 92 | 122 | 151 | 190 | 238 | 285 | 335 | 385 | 442 | 529 | 613 |
| 150 | 19 | 25 | 34 | 43 | 59 | 77 | 103 | 127 | 160 | 200 | 240 | 282 | 324 | 372 | 446 | 516 |
| 160 | 15 | 20 | 26 | 34 | 46 | 61 | 81 | 100 | 126 | 157 | 189 | 221 | 255 | 292 | 351 | 405 |
| 170 | 10 | 13 | 17 | 23 | 30 | 40 | 53 | 66 | 83 | 104 | 124 | 146 | 168 | 193 | 232 | 267 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply ($f \leq 60$ Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® DI STYLE 3663 - 7.2 KV • FT 10207c

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 73 | 98 | 125 | 169 | 223 | 296 | 365 | 459 | 575 | 689 | 807 | 925 | 1065 | 1270 | 1473 |
| 10 | 71 | 95 | 121 | 164 | 216 | 287 | 353 | 444 | 556 | 666 | 781 | 895 | 1030 | 1228 | 1425 |
| 20 | 69 | 91 | 117 | 158 | 208 | 277 | 341 | 429 | 537 | 643 | 753 | 864 | 994 | 1186 | 1376 |
| 30 | 66 | 88 | 113 | 152 | 201 | 266 | 328 | 413 | 517 | 619 | 726 | 832 | 958 | 1142 | 1325 |
| 40 | 63 | 85 | 108 | 146 | 193 | 256 | 315 | 397 | 497 | 595 | 697 | 799 | 920 | 1097 | 1273 |
| 50 | 61 | 81 | 104 | 140 | 185 | 245 | 302 | 380 | 476 | 570 | 668 | 765 | 881 | 1051 | 1219 |
| 60 | 58 | 77 | 99 | 134 | 176 | 234 | 288 | 362 | 454 | 543 | 637 | 731 | 841 | 1003 | 1163 |
| 70 | 55 | 74 | 94 | 127 | 168 | 222 | 274 | 345 | 431 | 517 | 605 | 694 | 799 | 954 | 1105 |
| 80 | 52 | 70 | 89 | 120 | 159 | 210 | 259 | 326 | 408 | 488 | 573 | 657 | 755 | 902 | 1045 |
| 90 | 49 | 65 | 84 | 113 | 149 | 198 | 244 | 306 | 384 | 459 | 538 | 618 | 710 | 848 | 983 |
| 100 | 46 | 61 | 78 | 106 | 139 | 184 | 227 | 286 | 358 | 429 | 502 | 576 | 663 | 792 | 917 |
| 110 | 43 | 57 | 72 | 98 | 129 | 171 | 210 | 265 | 331 | 396 | 464 | 533 | 613 | 732 | 848 |
| 120 | 39 | 52 | 66 | 89 | 118 | 156 | 192 | 242 | 302 | 362 | 424 | 487 | 560 | 669 | 774 |
| 130 | 35 | 47 | 60 | 80 | 106 | 140 | 173 | 217 | 271 | 325 | 381 | 438 | 502 | 601 | 695 |
| 140 | 31 | 41 | 52 | 70 | 93 | 123 | 151 | 190 | 238 | 285 | 334 | 384 | 440 | 527 | 610 |
| 150 | 26 | 34 | 44 | 59 | 78 | 103 | 128 | 161 | 201 | 240 | 282 | 324 | 371 | 444 | 514 |
| 160 | 21 | 27 | 35 | 47 | 61 | 81 | 100 | 126 | 158 | 189 | 221 | 255 | 292 | 350 | 404 |
| 170 | 14 | 18 | 23 | 31 | 41 | 54 | 66 | 84 | 104 | 125 | 146 | 169 | 193 | 231 | 267 |

SILICOUL® DI STYLE 3664 - 15 KV • FT 10208a

| | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 0 | 74 | 98 | 125 | 168 | 221 | 293 | 360 | 453 | 565 | 676 | 792 | 904 | 1042 | 1241 | 1436 |
| 10 | 71 | 95 | 121 | 163 | 214 | 283 | 349 | 438 | 547 | 654 | 766 | 875 | 1008 | 1201 | 1390 |
| 20 | 69 | 92 | 117 | 157 | 207 | 274 | 337 | 423 | 528 | 632 | 740 | 845 | 973 | 1160 | 1342 |
| 30 | 67 | 88 | 113 | 152 | 200 | 264 | 325 | 408 | 509 | 609 | 713 | 815 | 938 | 1118 | 1293 |
| 40 | 64 | 85 | 109 | 146 | 192 | 254 | 312 | 392 | 489 | 585 | 686 | 783 | 902 | 1075 | 1243 |
| 50 | 61 | 82 | 104 | 140 | 184 | 243 | 299 | 376 | 469 | 561 | 657 | 751 | 864 | 1030 | 1191 |
| 60 | 59 | 78 | 100 | 134 | 176 | 232 | 286 | 359 | 448 | 536 | 627 | 717 | 825 | 984 | 1138 |
| 70 | 56 | 74 | 95 | 127 | 167 | 221 | 272 | 341 | 426 | 509 | 597 | 682 | 785 | 936 | 1082 |
| 80 | 53 | 70 | 90 | 121 | 158 | 209 | 257 | 323 | 403 | 482 | 565 | 646 | 742 | 886 | 1024 |
| 90 | 50 | 66 | 85 | 114 | 149 | 197 | 242 | 304 | 379 | 454 | 531 | 608 | 699 | 834 | 964 |
| 100 | 47 | 62 | 79 | 106 | 139 | 184 | 226 | 284 | 354 | 424 | 496 | 568 | 653 | 779 | 900 |
| 110 | 43 | 57 | 73 | 98 | 129 | 170 | 210 | 263 | 328 | 392 | 459 | 526 | 604 | 721 | 833 |
| 120 | 40 | 53 | 67 | 90 | 118 | 156 | 192 | 241 | 300 | 359 | 420 | 481 | 552 | 659 | 762 |
| 130 | 36 | 47 | 60 | 81 | 106 | 140 | 173 | 217 | 270 | 323 | 378 | 433 | 497 | 593 | 685 |
| 140 | 32 | 42 | 53 | 71 | 94 | 123 | 152 | 190 | 237 | 283 | 332 | 380 | 436 | 521 | 602 |
| 150 | 27 | 35 | 45 | 60 | 79 | 104 | 128 | 161 | 200 | 239 | 280 | 321 | 368 | 440 | 508 |
| 160 | 21 | 28 | 36 | 48 | 63 | 82 | 101 | 127 | 158 | 189 | 221 | 254 | 290 | 347 | 401 |
| 170 | 14 | 19 | 24 | 32 | 42 | 55 | 67 | 84 | 105 | 125 | 147 | 169 | 193 | 231 | 266 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® ST PUR 1.1 KV • FT 10301b

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 52 | 70 | 93 | 119 | 170 | 225 | 299 | 368 | 462 | 578 | 689 | 809 | 923 | 1059 | 1258 | 1456 | 1747 |
| 10 | 50 | 68 | 90 | 115 | 163 | 217 | 289 | 356 | 447 | 559 | 667 | 782 | 893 | 1025 | 1217 | 1409 | 1690 |
| 20 | 48 | 65 | 87 | 111 | 156 | 208 | 277 | 343 | 431 | 540 | 644 | 755 | 863 | 989 | 1175 | 1360 | 1632 |
| 30 | 46 | 62 | 83 | 106 | 149 | 199 | 265 | 329 | 415 | 519 | 620 | 727 | 831 | 953 | 1132 | 1310 | 1572 |
| 40 | 44 | 59 | 79 | 101 | 142 | 189 | 252 | 313 | 397 | 493 | 593 | 696 | 798 | 916 | 1088 | 1259 | 1510 |
| 50 | 42 | 56 | 74 | 95 | 134 | 179 | 239 | 296 | 375 | 468 | 562 | 659 | 763 | 872 | 1043 | 1206 | 1432 |
| 60 | 39 | 53 | 70 | 90 | 126 | 168 | 225 | 279 | 354 | 440 | 529 | 621 | 719 | 821 | 991 | 1140 | 1349 |
| 70 | 37 | 49 | 65 | 84 | 118 | 157 | 210 | 260 | 330 | 411 | 495 | 581 | 673 | 768 | 927 | 1067 | 1262 |
| 80 | 34 | 46 | 60 | 78 | 109 | 145 | 194 | 240 | 305 | 380 | 457 | 536 | 622 | 709 | 860 | 986 | 1166 |
| 90 | 31 | 42 | 55 | 71 | 100 | 132 | 176 | 219 | 279 | 347 | 418 | 490 | 568 | 648 | 785 | 902 | 1065 |
| 100 | 28 | 37 | 49 | 63 | 89 | 119 | 158 | 197 | 250 | 311 | 375 | 440 | 511 | 583 | 705 | 810 | 957 |
| 110 | 24 | 33 | 43 | 55 | 78 | 104 | 138 | 172 | 219 | 273 | 328 | 385 | 448 | 510 | 619 | 710 | 838 |
| 120 | 20 | 27 | 36 | 46 | 65 | 87 | 116 | 145 | 184 | 229 | 276 | 324 | 377 | 430 | 521 | 599 | 706 |
| 130 | 16 | 21 | 28 | 36 | 52 | 68 | 91 | 113 | 144 | 179 | 216 | 254 | 296 | 337 | 409 | 469 | 553 |
| 140 | 11 | 14 | 19 | 24 | 34 | 46 | 61 | 74 | 95 | 118 | 142 | 167 | 194 | 221 | 270 | 309 | 363 |

SILICOUL® ST PUR 3.7 KV • FT 10302b

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 52 | 71 | 94 | 120 | 170 | 224 | 296 | 365 | 458 | 573 | 682 | 798 | 914 | 1053 | 1253 | 1453 | 1728 |
| 10 | 51 | 68 | 91 | 116 | 164 | 217 | 287 | 353 | 443 | 554 | 659 | 773 | 884 | 1019 | 1213 | 1406 | 1672 |
| 20 | 49 | 66 | 88 | 112 | 158 | 209 | 277 | 341 | 428 | 535 | 637 | 746 | 854 | 984 | 1171 | 1358 | 1615 |
| 30 | 47 | 64 | 85 | 108 | 153 | 201 | 267 | 329 | 412 | 516 | 614 | 719 | 823 | 948 | 1129 | 1308 | 1556 |
| 40 | 45 | 61 | 81 | 104 | 147 | 194 | 256 | 316 | 396 | 496 | 590 | 691 | 791 | 911 | 1085 | 1257 | 1495 |
| 50 | 43 | 59 | 78 | 100 | 141 | 185 | 246 | 303 | 380 | 475 | 565 | 662 | 758 | 873 | 1039 | 1204 | 1433 |
| 60 | 42 | 56 | 74 | 95 | 134 | 176 | 232 | 286 | 361 | 448 | 539 | 632 | 724 | 825 | 992 | 1143 | 1361 |
| 70 | 40 | 53 | 71 | 90 | 126 | 165 | 217 | 268 | 338 | 419 | 504 | 591 | 681 | 773 | 930 | 1068 | 1273 |
| 80 | 37 | 50 | 65 | 84 | 116 | 153 | 201 | 247 | 313 | 387 | 468 | 549 | 632 | 716 | 863 | 991 | 1180 |
| 90 | 34 | 45 | 60 | 76 | 106 | 139 | 183 | 226 | 286 | 354 | 427 | 501 | 577 | 653 | 788 | 904 | 1077 |
| 100 | 31 | 41 | 54 | 69 | 95 | 125 | 165 | 203 | 257 | 318 | 384 | 450 | 519 | 587 | 709 | 812 | 968 |
| 110 | 27 | 36 | 47 | 60 | 84 | 110 | 144 | 178 | 225 | 279 | 337 | 395 | 456 | 515 | 622 | 712 | 848 |
| 120 | 23 | 30 | 40 | 51 | 70 | 92 | 122 | 150 | 190 | 235 | 284 | 333 | 384 | 434 | 524 | 600 | 715 |
| 130 | 18 | 24 | 31 | 40 | 55 | 72 | 95 | 118 | 149 | 184 | 223 | 261 | 302 | 340 | 412 | 471 | 561 |
| 140 | 12 | 16 | 21 | 26 | 36 | 48 | 63 | 77 | 98 | 121 | 147 | 172 | 199 | 224 | 271 | 310 | 369 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.
- Maximum temperature on insulation: +150°C.

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LES CABLES DE L'EXTREME

**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® ST PUR 6.6 KV • FT 10303c

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 71 | 94 | 120 | 169 | 223 | 295 | 362 | 454 | 567 | 678 | 793 | 907 | 1043 | 1241 | 1436 | 1701 |
| 10 | 69 | 91 | 116 | 164 | 216 | 285 | 351 | 439 | 549 | 656 | 768 | 878 | 1009 | 1201 | 1389 | 1647 |
| 20 | 67 | 88 | 112 | 158 | 208 | 275 | 339 | 424 | 530 | 634 | 741 | 848 | 975 | 1160 | 1342 | 1591 |
| 30 | 64 | 85 | 108 | 152 | 201 | 265 | 326 | 409 | 511 | 611 | 714 | 817 | 939 | 1118 | 1293 | 1533 |
| 40 | 62 | 82 | 104 | 147 | 193 | 255 | 314 | 393 | 491 | 587 | 687 | 786 | 903 | 1075 | 1243 | 1474 |
| 50 | 59 | 78 | 100 | 141 | 185 | 245 | 301 | 377 | 471 | 562 | 658 | 753 | 865 | 1030 | 1191 | 1413 |
| 60 | 57 | 75 | 95 | 134 | 177 | 234 | 287 | 360 | 449 | 537 | 628 | 719 | 826 | 984 | 1138 | 1349 |
| 70 | 54 | 71 | 91 | 128 | 168 | 222 | 273 | 342 | 426 | 509 | 598 | 684 | 782 | 936 | 1077 | 1284 |
| 80 | 51 | 67 | 86 | 121 | 158 | 207 | 255 | 320 | 396 | 472 | 554 | 638 | 724 | 871 | 998 | 1192 |
| 90 | 48 | 63 | 80 | 111 | 145 | 189 | 233 | 293 | 362 | 432 | 506 | 584 | 662 | 797 | 912 | 1089 |
| 100 | 44 | 57 | 72 | 100 | 130 | 170 | 210 | 264 | 325 | 388 | 456 | 526 | 595 | 717 | 821 | 981 |
| 110 | 38 | 50 | 64 | 88 | 115 | 149 | 184 | 232 | 286 | 341 | 400 | 462 | 523 | 630 | 720 | 861 |
| 120 | 32 | 42 | 54 | 74 | 97 | 126 | 156 | 196 | 241 | 288 | 338 | 390 | 441 | 532 | 608 | 727 |
| 130 | 25 | 33 | 42 | 58 | 76 | 99 | 122 | 154 | 189 | 226 | 265 | 306 | 346 | 418 | 478 | 571 |
| 140 | 17 | 22 | 28 | 39 | 50 | 66 | 81 | 102 | 125 | 149 | 175 | 203 | 229 | 277 | 315 | 378 |

SILICOUL® ST PUR 13.8 KV • FT 10304b

| | | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 71 | 94 | 120 | 168 | 220 | 291 | 357 | 447 | 558 | 666 | 779 | 888 | 1021 | 1214 | 1404 | 1667 |
| 10 | 69 | 91 | 116 | 163 | 213 | 282 | 346 | 433 | 540 | 645 | 754 | 860 | 988 | 1176 | 1359 | 1614 |
| 20 | 67 | 88 | 112 | 157 | 206 | 272 | 334 | 419 | 522 | 623 | 729 | 831 | 955 | 1136 | 1313 | 1559 |
| 30 | 64 | 85 | 108 | 152 | 199 | 262 | 322 | 404 | 503 | 600 | 702 | 801 | 921 | 1096 | 1266 | 1504 |
| 40 | 62 | 82 | 104 | 146 | 191 | 252 | 310 | 388 | 484 | 577 | 675 | 770 | 885 | 1054 | 1217 | 1446 |
| 50 | 59 | 79 | 100 | 140 | 184 | 242 | 297 | 372 | 464 | 554 | 648 | 739 | 849 | 1010 | 1167 | 1386 |
| 60 | 57 | 75 | 95 | 134 | 176 | 231 | 284 | 356 | 443 | 529 | 619 | 706 | 811 | 965 | 1115 | 1325 |
| 70 | 54 | 72 | 91 | 127 | 167 | 220 | 270 | 339 | 422 | 504 | 589 | 672 | 772 | 919 | 1062 | 1261 |
| 80 | 51 | 68 | 86 | 121 | 158 | 209 | 256 | 321 | 400 | 477 | 558 | 637 | 731 | 871 | 1006 | 1194 |
| 90 | 48 | 64 | 81 | 114 | 149 | 197 | 241 | 302 | 375 | 446 | 520 | 600 | 679 | 815 | 934 | 1112 |
| 100 | 45 | 60 | 76 | 106 | 139 | 180 | 221 | 275 | 338 | 401 | 469 | 541 | 611 | 734 | 842 | 1002 |
| 110 | 42 | 55 | 69 | 94 | 122 | 158 | 194 | 241 | 297 | 353 | 412 | 477 | 538 | 646 | 741 | 881 |
| 120 | 35 | 46 | 58 | 80 | 103 | 134 | 164 | 204 | 252 | 299 | 349 | 404 | 455 | 547 | 627 | 746 |
| 130 | 28 | 37 | 46 | 63 | 81 | 105 | 129 | 160 | 197 | 236 | 275 | 316 | 359 | 428 | 494 | 589 |
| 140 | 19 | 24 | 31 | 42 | 54 | 69 | 85 | 106 | 130 | 157 | 183 | 209 | 239 | 288 | 329 | 392 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.
- Maximum temperature on insulation: +150°C.

For this product, please contact:

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® SCR PUR 1.1 KV • FT 10309b

| Ambient temperature (°C) | 1.5 mm ² | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 54 | 73 | 97 | 124 | 174 | 230 | 304 | 374 | 470 | 587 | 698 | 818 | 933 | 1069 | 1270 | 1467 | 1764 |
| 10 | 52 | 71 | 94 | 119 | 169 | 223 | 294 | 362 | 454 | 568 | 676 | 792 | 903 | 1034 | 1229 | 1419 | 1706 |
| 20 | 51 | 68 | 91 | 115 | 162 | 214 | 284 | 349 | 439 | 548 | 652 | 764 | 871 | 999 | 1187 | 1371 | 1648 |
| 30 | 49 | 66 | 87 | 111 | 155 | 205 | 271 | 335 | 423 | 528 | 628 | 736 | 840 | 962 | 1144 | 1321 | 1587 |
| 40 | 47 | 63 | 83 | 105 | 147 | 195 | 258 | 319 | 405 | 503 | 604 | 707 | 807 | 925 | 1099 | 1269 | 1525 |
| 50 | 45 | 60 | 78 | 100 | 139 | 185 | 245 | 302 | 384 | 477 | 571 | 669 | 773 | 882 | 1053 | 1216 | 1452 |
| 60 | 42 | 56 | 74 | 94 | 131 | 174 | 230 | 285 | 361 | 449 | 538 | 631 | 728 | 831 | 1004 | 1154 | 1366 |
| 70 | 39 | 52 | 69 | 88 | 122 | 162 | 215 | 266 | 338 | 420 | 503 | 590 | 682 | 777 | 939 | 1078 | 1278 |
| 80 | 36 | 48 | 64 | 81 | 113 | 150 | 198 | 246 | 312 | 388 | 465 | 545 | 630 | 719 | 871 | 1000 | 1180 |
| 90 | 33 | 44 | 58 | 74 | 103 | 137 | 181 | 224 | 285 | 354 | 425 | 498 | 576 | 657 | 795 | 912 | 1079 |
| 100 | 30 | 40 | 52 | 67 | 93 | 123 | 163 | 201 | 256 | 318 | 382 | 447 | 518 | 590 | 715 | 820 | 969 |
| 110 | 26 | 35 | 46 | 58 | 81 | 107 | 142 | 176 | 224 | 278 | 334 | 392 | 454 | 517 | 628 | 719 | 849 |
| 120 | 22 | 29 | 39 | 49 | 68 | 90 | 120 | 148 | 189 | 234 | 282 | 330 | 383 | 436 | 529 | 606 | 715 |
| 130 | 17 | 23 | 30 | 38 | 53 | 71 | 94 | 116 | 148 | 183 | 221 | 258 | 300 | 342 | 415 | 476 | 561 |
| 140 | 11 | 15 | 20 | 25 | 36 | 46 | 61 | 76 | 97 | 120 | 145 | 170 | 198 | 225 | 274 | 314 | 369 |

SILICOUL® SCR PUR 3.7 KV • FT 10310b

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 54 | 73 | 96 | 123 | 173 | 228 | 301 | 370 | 465 | 580 | 689 | 805 | 922 | 1063 | 1265 | 1463 | 1743 |
| 10 | 52 | 70 | 93 | 119 | 168 | 221 | 291 | 358 | 450 | 562 | 667 | 779 | 892 | 1028 | 1224 | 1416 | 1687 |
| 20 | 50 | 68 | 90 | 115 | 162 | 213 | 281 | 346 | 434 | 542 | 644 | 753 | 862 | 993 | 1182 | 1368 | 1629 |
| 30 | 49 | 66 | 87 | 111 | 156 | 205 | 271 | 333 | 419 | 522 | 621 | 725 | 831 | 957 | 1139 | 1318 | 1570 |
| 40 | 47 | 63 | 84 | 107 | 150 | 197 | 261 | 320 | 402 | 502 | 596 | 697 | 798 | 919 | 1095 | 1267 | 1509 |
| 50 | 45 | 60 | 80 | 102 | 144 | 189 | 250 | 307 | 385 | 481 | 572 | 668 | 765 | 881 | 1049 | 1214 | 1446 |
| 60 | 43 | 58 | 76 | 98 | 137 | 180 | 237 | 292 | 368 | 455 | 546 | 638 | 731 | 836 | 1002 | 1154 | 1377 |
| 70 | 41 | 55 | 73 | 93 | 129 | 169 | 222 | 273 | 344 | 426 | 512 | 599 | 691 | 782 | 942 | 1080 | 1288 |
| 80 | 39 | 52 | 68 | 87 | 120 | 157 | 206 | 253 | 320 | 395 | 475 | 556 | 640 | 725 | 874 | 1001 | 1194 |
| 90 | 36 | 48 | 62 | 79 | 110 | 143 | 188 | 231 | 292 | 361 | 434 | 508 | 585 | 662 | 799 | 914 | 1090 |
| 100 | 32 | 43 | 56 | 71 | 99 | 129 | 169 | 208 | 262 | 324 | 390 | 457 | 526 | 595 | 718 | 822 | 980 |
| 110 | 28 | 38 | 49 | 63 | 86 | 113 | 148 | 182 | 230 | 284 | 343 | 401 | 462 | 522 | 630 | 721 | 859 |
| 120 | 24 | 32 | 42 | 53 | 73 | 95 | 125 | 153 | 194 | 240 | 289 | 338 | 390 | 440 | 532 | 608 | 725 |
| 130 | 19 | 25 | 33 | 42 | 57 | 75 | 98 | 120 | 152 | 188 | 227 | 266 | 306 | 345 | 418 | 477 | 569 |
| 140 | 13 | 17 | 22 | 28 | 38 | 49 | 64 | 79 | 100 | 124 | 150 | 175 | 202 | 227 | 276 | 315 | 375 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.
- Maximum temperature on insulation: +150°C.

For this product, please contact:

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**MAXIMUM PERMISSIBLE CURRENT
IN PERMANENT MODE**

SILICOUL® SCR PUR 6.6 KV • FT 10311c

| Ambient temperature (°C) | 2.5 mm ² | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 25 mm ² | 35 mm ² | 50 mm ² | 70 mm ² | 95 mm ² | 120 mm ² | 150 mm ² | 185 mm ² | 240 mm ² | 300 mm ² | 400 mm ² |
|--------------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0 | 73 | 97 | 123 | 173 | 227 | 300 | 370 | 462 | 577 | 688 | 803 | 918 | 1056 | 1254 | 1453 | 1714 |
| 10 | 71 | 94 | 119 | 167 | 220 | 291 | 358 | 447 | 558 | 666 | 777 | 889 | 1022 | 1214 | 1406 | 1659 |
| 20 | 69 | 91 | 115 | 162 | 213 | 281 | 346 | 432 | 539 | 643 | 751 | 858 | 987 | 1173 | 1358 | 1603 |
| 30 | 66 | 87 | 111 | 156 | 205 | 271 | 333 | 416 | 519 | 620 | 724 | 827 | 951 | 1130 | 1309 | 1545 |
| 40 | 64 | 84 | 107 | 150 | 197 | 260 | 320 | 400 | 499 | 596 | 696 | 795 | 915 | 1086 | 1258 | 1485 |
| 50 | 61 | 81 | 102 | 144 | 189 | 249 | 307 | 384 | 479 | 571 | 667 | 762 | 877 | 1042 | 1206 | 1424 |
| 60 | 58 | 77 | 98 | 137 | 181 | 238 | 293 | 366 | 457 | 545 | 637 | 728 | 837 | 995 | 1152 | 1360 |
| 70 | 55 | 73 | 93 | 131 | 172 | 227 | 279 | 349 | 435 | 519 | 606 | 693 | 795 | 947 | 1093 | 1294 |
| 80 | 53 | 70 | 88 | 124 | 163 | 212 | 263 | 329 | 405 | 482 | 564 | 649 | 737 | 885 | 1014 | 1205 |
| 90 | 50 | 66 | 83 | 115 | 150 | 195 | 241 | 301 | 370 | 441 | 516 | 594 | 674 | 810 | 927 | 1102 |
| 100 | 46 | 60 | 76 | 104 | 135 | 175 | 216 | 271 | 333 | 397 | 464 | 535 | 607 | 729 | 835 | 993 |
| 110 | 40 | 52 | 66 | 91 | 118 | 154 | 190 | 238 | 293 | 349 | 408 | 470 | 533 | 641 | 733 | 872 |
| 120 | 34 | 45 | 56 | 77 | 100 | 130 | 161 | 201 | 247 | 294 | 345 | 397 | 450 | 542 | 619 | 737 |
| 130 | 27 | 35 | 44 | 61 | 79 | 102 | 126 | 158 | 194 | 231 | 271 | 313 | 354 | 426 | 486 | 580 |
| 140 | 18 | 23 | 29 | 40 | 52 | 68 | 84 | 105 | 129 | 153 | 179 | 207 | 234 | 282 | 322 | 384 |

SILICOUL® SCR PUR 13.8 KV • FT 10312b

| | | | | | | | | | | | | | | | | |
|------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 0 | 73 | 97 | 122 | 172 | 226 | 297 | 365 | 456 | 568 | 677 | 790 | 902 | 1037 | 1231 | 1421 | 1681 |
| 10 | 71 | 94 | 119 | 166 | 219 | 288 | 353 | 442 | 550 | 656 | 765 | 873 | 1004 | 1192 | 1376 | 1628 |
| 20 | 68 | 90 | 115 | 161 | 211 | 278 | 341 | 427 | 531 | 634 | 740 | 844 | 970 | 1152 | 1329 | 1573 |
| 30 | 66 | 87 | 111 | 155 | 204 | 268 | 329 | 412 | 512 | 611 | 713 | 814 | 936 | 1111 | 1282 | 1517 |
| 40 | 64 | 84 | 107 | 149 | 196 | 258 | 317 | 396 | 493 | 588 | 686 | 783 | 900 | 1069 | 1233 | 1459 |
| 50 | 61 | 81 | 102 | 143 | 188 | 248 | 304 | 380 | 473 | 564 | 658 | 751 | 863 | 1025 | 1182 | 1399 |
| 60 | 58 | 77 | 98 | 137 | 180 | 237 | 290 | 363 | 452 | 539 | 629 | 718 | 824 | 979 | 1130 | 1337 |
| 70 | 56 | 73 | 93 | 130 | 171 | 226 | 276 | 346 | 430 | 513 | 598 | 683 | 785 | 932 | 1075 | 1273 |
| 80 | 53 | 70 | 88 | 124 | 162 | 214 | 262 | 328 | 407 | 486 | 567 | 647 | 743 | 883 | 1019 | 1206 |
| 90 | 50 | 66 | 83 | 117 | 153 | 201 | 247 | 309 | 384 | 458 | 533 | 610 | 696 | 832 | 954 | 1129 |
| 100 | 47 | 62 | 78 | 109 | 143 | 187 | 228 | 283 | 349 | 412 | 480 | 557 | 627 | 750 | 858 | 1016 |
| 110 | 43 | 57 | 72 | 98 | 127 | 165 | 201 | 249 | 307 | 363 | 423 | 490 | 552 | 661 | 756 | 895 |
| 120 | 37 | 49 | 61 | 83 | 108 | 139 | 170 | 210 | 260 | 308 | 359 | 415 | 467 | 560 | 640 | 759 |
| 130 | 30 | 39 | 48 | 66 | 85 | 110 | 134 | 166 | 203 | 241 | 280 | 325 | 365 | 438 | 501 | 594 |
| 140 | 20 | 26 | 32 | 44 | 56 | 73 | 89 | 109 | 134 | 159 | 185 | 215 | 246 | 289 | 337 | 400 |

- All values in the tables are expressed in Amperes (A).
- Calculations are based on methods issued from IEC 60287 standard.
- 1 single cable in free air without heat source in its surrounding environment.
- DC supply or AC supply (F ≤ 60 Hz).
- Maximum temperature of core: +180°C.
- Maximum temperature on insulation: +150°C.

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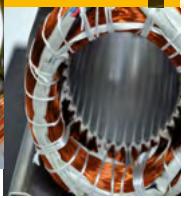
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