-60 °C > +180 °C

SILICOUL® 1.1KV / 3.7KV 6.6KV / 13.8KV

• Good resistance to thermal shock, UV, ozone, and corona effect
• Excellent ageing and mechanical strength
• UL Style available in 3661 / 3662 / 3663 / 3664
• Options on request:
  SILICOUL® SCR: with tinned copper braid screen
  SILICOUL® DI: with double insulation
  SILICOUL® PUR: with PUR outer sheath
  SILICOUL® ST: without synthetic braid

www.omerin.com
**SILICOUL® 1.1 kV**

-60 °C to +180 °C

### Approvals - standards

- Smoke classification F1 as per NF F 16-101
- Bureau VERITAS approval certificates: compliance with the tests described as per standards IEC 60092-350/353/360, IEC 60228, IEC 60331-11/2, IEC 60332-1/1/2, IEC 60332-3/2 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 60332-1/1/2, IEC 60754-2, IEC 60332-3/2 and IEC 60754-2

### Applications

- Cabling for rotating machines: motors, alternators, generators.
- Transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- Power cabinets.
- Other options and/or combinations: contact us.

### Options

- Extra-flexible tin-plated copper core - class 5 as per IEC 60228: contact us.
- Flexible or extra-flexible bare copper, silver-plated or nickel-plated core - class 5 or 6 as per IEC 60228: contact us.
- Without reinforcing braid (ref. SILICOUL® ST 1.1 KV): contact us.
- Vanished synthetic fibre reinforcing braid (ref. SILICOUL® BI 1.1 KV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Silicone rubber double insulating layers (ref. SILICOUL® SCR 1.1 KV): contact us.
- Electrical shielding: Tin-plated copper braid (ref. SILICOUL® SCR 1.1 KV): contact us.
- Outer flexible armour: Galvanised steel braid (ref. SILICOUL® BS 1.1 KV): contact us.
- Stainless steel braid (ref. SILICOUL® BS 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.

### Characteristics

**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- 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 - {cross-section}.

### SILICOUL® 1.1 kV

#### Standard marking: OMERIN - SILICOUL 1.1 KV - cross-section.

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

<table>
<thead>
<tr>
<th>Nominal cross-section (mm²)</th>
<th>Nominal standing (Ω/km)</th>
<th>Maximum linear resistance at 20 °C (Ω/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>13.7</td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5.09</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3.39</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1.95</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1.24</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>0.795</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>0.565</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>0.393</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>0.277</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>0.210</td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>0.164</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>0.132</td>
<td></td>
</tr>
<tr>
<td>185</td>
<td>0.108</td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>0.0817</td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>0.0654</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>0.0495</td>
<td></td>
</tr>
</tbody>
</table>

**INSULATED WIRE OR CABLE**

<table>
<thead>
<tr>
<th>Nominal diameter (mm)</th>
<th>Approximate linear weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8</td>
<td>21.6</td>
</tr>
<tr>
<td>4.3</td>
<td>34.0</td>
</tr>
<tr>
<td>4.9</td>
<td>48.9</td>
</tr>
<tr>
<td>6.0</td>
<td>70.5</td>
</tr>
<tr>
<td>7.2</td>
<td>117.0</td>
</tr>
<tr>
<td>8.6</td>
<td>173.0</td>
</tr>
<tr>
<td>10.4</td>
<td>268.0</td>
</tr>
<tr>
<td>11.9</td>
<td>360.0</td>
</tr>
<tr>
<td>14.0</td>
<td>514.0</td>
</tr>
<tr>
<td>15.9</td>
<td>649.0</td>
</tr>
<tr>
<td>18.2</td>
<td>907.0</td>
</tr>
<tr>
<td>20.7</td>
<td>1168.0</td>
</tr>
<tr>
<td>23.2</td>
<td>1428.0</td>
</tr>
<tr>
<td>25.2</td>
<td>1815.0</td>
</tr>
<tr>
<td>29.2</td>
<td>2444.0</td>
</tr>
<tr>
<td>31.6</td>
<td>3014.0</td>
</tr>
<tr>
<td>34.6</td>
<td>3768.0</td>
</tr>
</tbody>
</table>

For this product, please contact:

**OMERIN division principale**
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

**OMERIN division silisol**
BP 87 - ZI du Devay - F 42000 Saint-Frédéric
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

© Registered trademarks of the OMERIN Group. All information is indicative and may be subject to prior notice. Drawings and photos are not contractual. Reproduction prohibited without the prior agreement of OMERIN.
SILICOUL® 3.7 kV
-60 °C to +180 °C

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 tri-plated copper core class 6 as per IEC 60228: contact us.
- Flexible or extra flexible bare copper, silver plated or nickel plated core - class 5 or 6 as per IEC 60228: contact us.
- Without reinforcing braid (ref. SILICOUL® BT 3.7 kV): contact us.
- Variants of synthetic fibres reinforcing braid (ref. SILICOUL® Bi 3.7 kV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Silicone rubber double insulating layers (ref. SILICOUL® SCR 3.7 kV): contact us.
- Galvanised steel braid (ref. SILICOUL® BG 3.7 kV): contact us.
- Stainless steel braid (ref. SILICOUL® SS 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 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.

Reinforcement: Coated synthetic fibre braid.
Insulation: Silicone rubber.
Flexible tin-plated copper core - class 5 as per IEC 60228.
Continuous operating temperatures: -60 °C to +180 °C.
Good resistance to thermal shock and UV.
Excellent mechanical strength.
Rated voltage: 3.7 kV.
Test voltage: 10 kV.

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

For this product, please contact:
OMERIN division principale
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Devay - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 37 00 - Fax +33 (0)4 77 81 36 00
silisol@omerin.com

www.omerin.com
SILICOUL® 6.6 kV
-60 °C to +180 °C

Approvals - standards

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 core – class 5 or 6 as per IEC 60228: contact us.
- Without reinforcing braid (ref. SILICOUL® ST 6.6 kV): contact us.
- Vanished synthetic fibre reinforcing braid (ref. SILICOUL® BI 6.6 kV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Silicone rubber double insulating layers (ref. SILICOUL® SCR 6.6 kV): contact us.
- Electrical shielding:
  - Tin-plated copper braid (ref. SILICOUL® SCR 6.6 kV): contact us.
  - 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 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 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.

For this product, please contact:
OMERIN division principale
Zone Industrielle - F 63500 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Davay - F 42000 Saint-Fons
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com
® Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.
**SILICOUL® 13.8 kV**

-60 °C to +180 °C

### Approvals - standards

### Applications
- Cabling for rotating machines: motors, alternators, generators.
- Cabling for static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- Other nominal cross-sections: contact us.

### Options
- Extraflexible tin-plated copper core - class 5 as per IEC 60228, contact us.
- Flexible or extra-flexible bare copper, silver-plated or nickel-plated core – class 5 or 6 (ref. SILICOUL® SCR 13.8 kV): contact us.
- Very high temperature fibre reinforcing braid: contact us.
- Silicone rubber double insulating layers (ref. SILICOUL® BI 13.8 kV): contact us.
- Tin-plated copper braid without reinforcing braid: contact us.
- Galvanised steel braid: contact us.
- Stainless steel braid: contact us.
- Multi-conductor cable made up of an assembly of several single conductor cables SILICOUL® 13.8 kV: 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 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.

---

**For this product, please contact:**

OMERIN division principale
Zone Industrielle - F 63600 Ambert
Tel +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Devey - F 42000 Saint-Etienne
Tel +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

© Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual.

Reproduction is prohibited without the prior agreement of OMERIN.

---

### SILICOUL® 13.8 kV

<table>
<thead>
<tr>
<th>Flexible core + class 5 as per IEC 60228</th>
<th>Insulated Wire or Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal cross-section</td>
<td>Nominal standing</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>50 x 0.25</td>
</tr>
<tr>
<td>4</td>
<td>56 x 0.30</td>
</tr>
<tr>
<td>6</td>
<td>84 x 0.30</td>
</tr>
<tr>
<td>10</td>
<td>80 x 0.40</td>
</tr>
<tr>
<td>16</td>
<td>126 x 0.40</td>
</tr>
<tr>
<td>25</td>
<td>196 x 0.40</td>
</tr>
<tr>
<td>35</td>
<td>276 x 0.40</td>
</tr>
<tr>
<td>50</td>
<td>396 x 0.40</td>
</tr>
<tr>
<td>70</td>
<td>360 x 0.50</td>
</tr>
<tr>
<td>95</td>
<td>485 x 0.50</td>
</tr>
<tr>
<td>120</td>
<td>608 x 0.50</td>
</tr>
<tr>
<td>150</td>
<td>756 x 0.50</td>
</tr>
<tr>
<td>185</td>
<td>944 x 0.50</td>
</tr>
<tr>
<td>240</td>
<td>1221 x 0.50</td>
</tr>
<tr>
<td>300</td>
<td>1525 x 0.50</td>
</tr>
<tr>
<td>400</td>
<td>2037 x 0.50</td>
</tr>
</tbody>
</table>
SILICOUL®
Style 3661 - 1.1 kV
UL and cUL approval
-60 °C to +180 °C

For this product, please contact:
OMERIN division principale
BP 87 - ZI du Deyey - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Deyey - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

© Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

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 60923:350/353/360, IEC 60331-11/21, IEC 60332-1-1/2, IEC 60331-11/22, category A and IEC 60754-2.
• Horizontal flame as per cUL 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.
• Multiconductor cable made up of an assembly of several 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.

Characteristics
General
• Continuous operating temperatures: -60 °C to +180 °C.
• 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

<p>| Flexible core • class 5 as per IEC 60228 | INSULATED WIRE OR CABLE |</p>
<table>
<thead>
<tr>
<th>Nominal cross-section</th>
<th>Nominal standing</th>
<th>Maximum linear resistance at 20 °C (Ω/km)</th>
<th>Nominal diameter (mm)</th>
<th>Approximate linear weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>7 x 0.52*</td>
<td>12.2</td>
<td>3.8</td>
<td>21.6</td>
</tr>
<tr>
<td>2.5</td>
<td>19 x 0.40*</td>
<td>7.36</td>
<td>4.3</td>
<td>34.0</td>
</tr>
<tr>
<td>4</td>
<td>32 x 0.40*</td>
<td>4.70</td>
<td>4.9</td>
<td>48.9</td>
</tr>
<tr>
<td>6</td>
<td>48 x 0.40*</td>
<td>3.11</td>
<td>6.0</td>
<td>70.5</td>
</tr>
<tr>
<td>10</td>
<td>80 x 0.40</td>
<td>1.95</td>
<td>7.2</td>
<td>117</td>
</tr>
<tr>
<td>16</td>
<td>126 x 0.40</td>
<td>1.24</td>
<td>8.6</td>
<td>173</td>
</tr>
<tr>
<td>25</td>
<td>196 x 0.40</td>
<td>0.795</td>
<td>10.4</td>
<td>268</td>
</tr>
<tr>
<td>35</td>
<td>276 x 0.40</td>
<td>0.565</td>
<td>11.9</td>
<td>366</td>
</tr>
<tr>
<td>50</td>
<td>396 x 0.40</td>
<td>0.393</td>
<td>14.1</td>
<td>514</td>
</tr>
<tr>
<td>70</td>
<td>560 x 0.50</td>
<td>0.277</td>
<td>15.9</td>
<td>689</td>
</tr>
<tr>
<td>95</td>
<td>485 x 0.50</td>
<td>0.210</td>
<td>18.2</td>
<td>907</td>
</tr>
<tr>
<td>120</td>
<td>608 x 0.50</td>
<td>0.164</td>
<td>20.7</td>
<td>1168</td>
</tr>
<tr>
<td>150</td>
<td>736 x 0.50</td>
<td>0.132</td>
<td>23.2</td>
<td>1428</td>
</tr>
<tr>
<td>185</td>
<td>945 x 0.50</td>
<td>0.108</td>
<td>25.2</td>
<td>1815</td>
</tr>
<tr>
<td>240</td>
<td>1221 x 0.50</td>
<td>0.0817</td>
<td>29.2</td>
<td>2444</td>
</tr>
<tr>
<td>300</td>
<td>1525 x 0.50</td>
<td>0.0654</td>
<td>31.6</td>
<td>3014</td>
</tr>
<tr>
<td>400</td>
<td>2037 x 0.50</td>
<td>0.0495</td>
<td>34.6</td>
<td>3768</td>
</tr>
</tbody>
</table>

* Templated copper core - class 2 as per IEC 60228.

Standard reinforcing braid colour: yellow.

For this product, please contact:
OMERIN division principale
Zone Industrielle - F 63500 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Deyey - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com
**SILCOUL®**

**Style 3662 - 4.2 kV**

**UL and cUL approval**

-60 °C to +180 °C

---

**Characteristics**

**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- 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**

<table>
<thead>
<tr>
<th>Nominal cross-section (mm²)</th>
<th>Nominal standing</th>
<th>Maximum linear resistance at 20 °C (Ω/km)</th>
<th>Nominal diameter (mm)</th>
<th>Approximate linear weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>7 x 0.52*</td>
<td>12.2</td>
<td>5.5</td>
<td>38.4</td>
</tr>
<tr>
<td>2.5</td>
<td>9 x 0.40*</td>
<td>7.36</td>
<td>6.3</td>
<td>51.7</td>
</tr>
<tr>
<td>4</td>
<td>12 x 0.40*</td>
<td>4.70</td>
<td>6.9</td>
<td>68.7</td>
</tr>
<tr>
<td>6</td>
<td>14 x 0.40*</td>
<td>3.11</td>
<td>7.8</td>
<td>93.1</td>
</tr>
<tr>
<td>10</td>
<td>16 x 0.40</td>
<td>1.95</td>
<td>9.0</td>
<td>143</td>
</tr>
<tr>
<td>16</td>
<td>18 x 0.40</td>
<td>1.24</td>
<td>10.2</td>
<td>200</td>
</tr>
<tr>
<td>25</td>
<td>16 x 0.40</td>
<td>0.795</td>
<td>11.8</td>
<td>296</td>
</tr>
<tr>
<td>35</td>
<td>16 x 0.50</td>
<td>0.565</td>
<td>13.2</td>
<td>392</td>
</tr>
<tr>
<td>50</td>
<td>19 x 0.40</td>
<td>0.393</td>
<td>15.3</td>
<td>509</td>
</tr>
<tr>
<td>70</td>
<td>26 x 0.50</td>
<td>0.277</td>
<td>17.0</td>
<td>724</td>
</tr>
<tr>
<td>95</td>
<td>37 x 0.50</td>
<td>0.210</td>
<td>20.2</td>
<td>965</td>
</tr>
<tr>
<td>120</td>
<td>48 x 0.50</td>
<td>0.164</td>
<td>22.2</td>
<td>1227</td>
</tr>
<tr>
<td>150</td>
<td>54 x 0.50</td>
<td>0.132</td>
<td>24.4</td>
<td>1490</td>
</tr>
<tr>
<td>185</td>
<td>63 x 0.50</td>
<td>0.108</td>
<td>25.8</td>
<td>1532</td>
</tr>
<tr>
<td>240</td>
<td>71 x 0.50</td>
<td>0.0817</td>
<td>29.6</td>
<td>2286</td>
</tr>
<tr>
<td>300</td>
<td>94 x 0.50</td>
<td>0.0654</td>
<td>31.8</td>
<td>3026</td>
</tr>
<tr>
<td>400</td>
<td>126 x 0.50</td>
<td>0.0495</td>
<td>35.7</td>
<td>3840</td>
</tr>
</tbody>
</table>

---

**Options**

- Flexible bare copper core class 5 as per IEC 60228.
- Flexible or extra flexible silver plated or nickel plated copper core - class 5 or 6 as per IEC 60228.
- Without reinforcing braid: contact us.
- Varnished synthetic fibre reinforcing braid: contact us.
- Excellent mechanical strength.
- Continuous operating temperatures: -60 °C to +180 °C.
- Excellent UV resistance.
- Standard insulation colour: white.
- Standard reinforcing braid colour: brown.

---

For this product, please contact:

**OMERIN division principale**

Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

**OMERIN division silisol**

BP 87 - ZI du Devey - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

© Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.
**SILICOUL®**

**Style 3663 - 7.2 kV**

**UL and cUL approval**

-60 °C to +180 °C

---

**Approvals - standards**

- UL approval (180 °C / 7200 V) as per standard UL 758 - File no.: E101965.
- cUL approval (CSA 180 °C / 7200 V) as per standard C22.2 No. 210 – 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.

**Other nominal metric or American cross-sections:**

- Multi-conductor cable made up of an assembly
- Very high temperature fibre reinforcing braid:
  - Contact us.
  - 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 extralong 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.

**Characteristics**

**General**

- Continuous operating temperatures: -60 °C to +180 °C.
- 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**

<table>
<thead>
<tr>
<th>Nominal cross-section (mm²)</th>
<th>Nominal standing</th>
<th>Maximum linear resistance at 20 °C (Ω/km)</th>
<th>Nominal diameter (mm)</th>
<th>Approximate linear weight (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>19 x 0.40*</td>
<td>7.56</td>
<td>7</td>
<td>68.1</td>
</tr>
<tr>
<td>4</td>
<td>32 x 0.40*</td>
<td>4.70</td>
<td>9</td>
<td>86.2</td>
</tr>
<tr>
<td>6</td>
<td>48 x 0.40*</td>
<td>3.11</td>
<td>9</td>
<td>113</td>
</tr>
<tr>
<td>10</td>
<td>80 x 0.40</td>
<td>1.95</td>
<td>10</td>
<td>166</td>
</tr>
<tr>
<td>16</td>
<td>128 x 0.40</td>
<td>1.24</td>
<td>11.6</td>
<td>276</td>
</tr>
<tr>
<td>25</td>
<td>196 x 0.40</td>
<td>0.795</td>
<td>13.1</td>
<td>323</td>
</tr>
<tr>
<td>35</td>
<td>276 x 0.40</td>
<td>0.365</td>
<td>14.6</td>
<td>425</td>
</tr>
<tr>
<td>50</td>
<td>396 x 0.40</td>
<td>0.239</td>
<td>16.7</td>
<td>586</td>
</tr>
<tr>
<td>70</td>
<td>560 x 0.50</td>
<td>0.195</td>
<td>18.3</td>
<td>763</td>
</tr>
<tr>
<td>95</td>
<td>685 x 0.50</td>
<td>0.210</td>
<td>20.9</td>
<td>987</td>
</tr>
<tr>
<td>120</td>
<td>808 x 0.50</td>
<td>0.164</td>
<td>23.0</td>
<td>1326</td>
</tr>
<tr>
<td>150</td>
<td>956 x 0.50</td>
<td>0.132</td>
<td>25.3</td>
<td>1526</td>
</tr>
<tr>
<td>185</td>
<td>1121 x 0.50</td>
<td>0.108</td>
<td>26.9</td>
<td>1900</td>
</tr>
<tr>
<td>240</td>
<td>1325 x 0.50</td>
<td>0.0817</td>
<td>30.7</td>
<td>2517</td>
</tr>
<tr>
<td>300</td>
<td>1523 x 0.50</td>
<td>0.0654</td>
<td>33.9</td>
<td>3082</td>
</tr>
<tr>
<td>400</td>
<td>2037 x 0.50</td>
<td>0.0495</td>
<td>37.2</td>
<td>3929</td>
</tr>
</tbody>
</table>

* Tempered copper core - class 2 as per IEC 60228.

**SILICONE INSULATED AND/OR SHEATHED WIRES AND CABLES WITH REINFORCING BRAID**

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

For this product, please contact:

OMERIN division principale

Zone Industrielle - F 63000 Aubert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol

BP 87 - ZI du Devay - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 35 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.
**SILICOUL® Style 3664 - 15 kV**

**UL approval**

-60 °C to +180 °C

**Characteristics**

**General**
- Continuous operating temperatures: -60 °C to +180 °C.
- 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.

**Options**
- Flexible bare copper core - class 5 as per IEC 60228:
- Flexible or extra-flexible silver-plated or nickel-plated copper core - class 5 or 6 as per IEC 60228:
- 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 nominal metric or American cross-sections: contact us.
- Other options and/or combinations of the options outlined above: contact us.

**For this product, please contact:**

**OMERIN division principale**
Zone Industrielle - F 63500 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

**OMERIN division silisol**
BP 87 - ZI du Davay - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

**www.omerin.com**

*Registered trademark of the OMERIN Group. All information is indicative and may be modified without prior notice. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.*

---

**Approvals - standards**
- UL approval 110 °C / 15000 V as per standard UL 758: File no. E101965.
- cUL approval IC6A 120 °C / 15000 V as per GTO-15 and standard C22.2 N° 127: File no. E211350.
- 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.

**Insulated Wire or Cable**

**Nominal cross-section**

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>Approximate linear weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 mm²</td>
<td>10.6 kg/km</td>
</tr>
<tr>
<td>4 mm²</td>
<td>11.0</td>
</tr>
<tr>
<td>6 mm²</td>
<td>11.8</td>
</tr>
<tr>
<td>10 mm²</td>
<td>11.6</td>
</tr>
<tr>
<td>16 mm²</td>
<td>13.1</td>
</tr>
<tr>
<td>25 mm²</td>
<td>14.2</td>
</tr>
<tr>
<td>35 mm²</td>
<td>15.7</td>
</tr>
<tr>
<td>50 mm²</td>
<td>17.2</td>
</tr>
<tr>
<td>70 mm²</td>
<td>18.9</td>
</tr>
<tr>
<td>95 mm²</td>
<td>21.3</td>
</tr>
<tr>
<td>120 mm²</td>
<td>23.2</td>
</tr>
<tr>
<td>160 mm²</td>
<td>25.2</td>
</tr>
<tr>
<td>190 mm²</td>
<td>27.9</td>
</tr>
<tr>
<td>240 mm²</td>
<td>29.9</td>
</tr>
<tr>
<td>300 mm²</td>
<td>33.3</td>
</tr>
<tr>
<td>400 mm²</td>
<td>39.6</td>
</tr>
</tbody>
</table>

* Tinned copper core - class 2 as per IEC 60228.