

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

- 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/mm<sup>2</sup>}

**SILICOUL® DI Style 3664 - 15 kV****Flexible core • class 5 as per IEC 60228**

| Nominal cross-section (mm <sup>2</sup> ) | Nominal stranding | Maximum linear resistance at 20 °C (Ω/km) |
|--|-------------------|---|
| 2.5                                      | 19 x 0.40*        | 7.56                                      |
| 4  | 32 x 0.40*        | 4.70                                      |
| 6  | 48 x 0.40*        | 3.11                                      |
| 10                                       | 80 x 0.40         | 1.95                                      |
| 16                                       | 126 x 0.40        | 1.24                                      |
| 25                                       | 196 x 0.40        | 0.795                                     |
| 35                                       | 276 x 0.40        | 0.565                                     |
| 50                                       | 396 x 0.40        | 0.393                                     |
| 70                                       | 360 x 0.50        | 0.277                                     |
| 95                                       | 485 x 0.50        | 0.210                                     |
| 120                                      | 608 x 0.50        | 0.164                                     |
| 150                                      | 756 x 0.50        | 0.132                                     |
| 185                                      | 944 x 0.50        | 0.108                                     |
| 240                                      | 1221 x 0.50       | 0.0817                                    |
| 300                                      | 1525 x 0.50       | 0.0654                                    |

**INSULATED WIRE OR CABLE**

| Nominal diameter (mm) | Approximate linear weight (kg/km) |
|-----------------------|-----------------------------------|
| 9.6                   | 104                               |
| 10.4                  | 131                               |
| 11.2                  | 161                               |
| 12.5                  | 217                               |
| 13.6                  | 279                               |
| 15.1                  | 382                               |
| 16.6                  | 487                               |
| 18.3                  | 650                               |
| 20.1                  | 842                               |
| 22.0                  | 1058                              |
| 24.0                  | 1321                              |
| 26.7                  | 1640                              |
| 28.1                  | 1967                              |
| 31.9                  | 2588                              |
| 34.3                  | 3165                              |

\* 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

The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force.

For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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