

# SILICOUL®

## 1.1 kV

### - 60°C to + 180°C (class H)

#### CHARACTERISTICS

##### Physical-chemical

- Continuous working temperatures: - 60°C to + 180°C  
Peaks at + 230°C.
- Good resistance to thermal shock and UV.
- Excellent ageing resistance.
- Good resistance to ozone and the corona effect.
- Excellent mechanical strength.
- Bending radius  $\approx 5 \times d$ .
- Compatible with most impregnation varnishes.

##### Electrical

- Working voltage: 1.1 kV.
- Test voltage: 3.5 kV.
- Max. permissible current:  
consult our technical departments.

#### PRODUCTS

- All cross-sections: yellow.

#### PACKAGING

- Rolls, spools or drums.

#### OPTIONS

- UL/CSA approval, 1.1KV : style 3661.
- Other working voltages: SILICOUL® 3.7 kV, 6.6 kV, 13.8 kV.
- Version without reinforcing braid, ref. SILICOUL® ST: consult us.
- Other cross-sections: consult us.

- 1 - Flexible tinned copper core - class 5 - IEC 60228.
- 2 - Separating tape.
- 3 - Silicone rubber.
- 4 - Coated synthetic reinforcing braid.

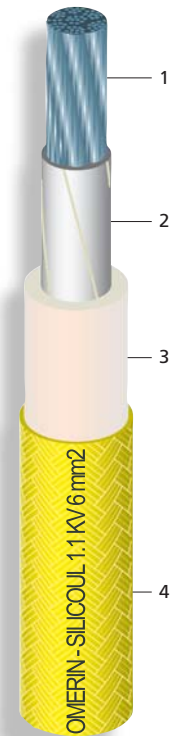
#### APPROVALS - STANDARDS

- F1 rated as per NF F 16-101.
- Type approval certificates for use in shipbuilding industry, IEC 60092-350 standards. Lloyd's Register of Shipping and Bureau Veritas.
- Fire behaviour : Meets requirements of IEC 60331-21, IEC 60332-1 and IEC 60332-3-22 tests.



#### APPLICATIONS

- Wiring of rotating machines: motors, alternators, generators.
- Wiring of static machines: transformers, inductors, inverters, choppers.
- Shipbuilding and railway construction.
- Power supply.



#### CORE

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

\* : No separating tape

#### INSULATED WIRE

	Nominal outer diameter mm	Approx. linear weight kg/km
	3.8	29.0
	4.3	37.8
	4.9	58.5
	6.0	76.6
	7.0	121
	8.6	178
	10.4	273
	11.9	376
	14.1	534
	15.9	738
	18.2	970
	20.3	1220
	22.8	1520
	24.8	1850
	28.8	2420
	31.5	3095
	34.6	4130