SILICOUL®

1.1 kV

- 60°C to + 180°C (class H)

B

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 ≃ 5 x 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.

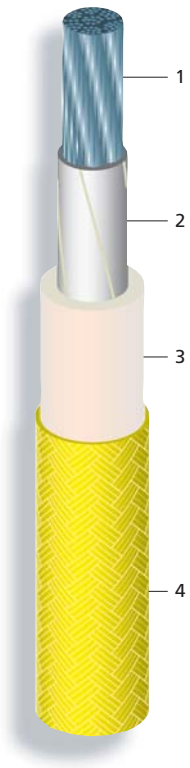
PACKAGING

- 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 228.
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, IEC 60332-1 et IEC 60332-3 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 mm²	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

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

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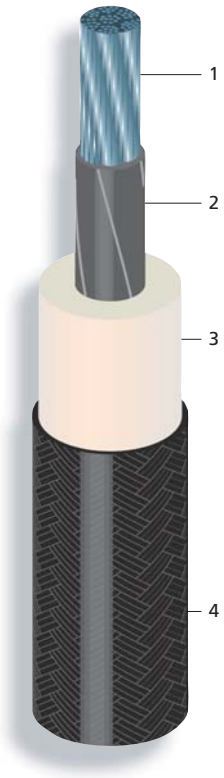
SILICOUL®

13.8 kV

- 60°C to + 180°C (class H)



1 - Flexible tinned copper core - class 5 - IEC 228.
2 - Semi-conducting tape.
3 - Silicone rubber.
4 - Coated synthetic reinforcing braid.

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 ≃ 5 x d.
- Compatible with most impregnation varnishes.

Electrical

- Working voltage: 15 kV.
- Test voltage: 30 kV.
- Max. permissible current:
  consult our technical departments.

PRODUCTS

- All cross-sections: black.

PACKAGING

- Rolls, spools or drums.

OPTIONS

- UL approval, 15KV : style 3664.
- Other working voltages: SILICOUL® 1.1 kV, 3.7 kV, 6.6 kV.
- Version without reinforcing braid, ref. SILICOUL® ST: consult us.
- Other cross-sections: consult us.

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, IEC 60332-1 et IEC 60332-3 tests.

APPLICATIONS

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

B

CORE

Nominal cross-section mm²	Nominal stranding	Max. linear resistance at 20°C Ω/km
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210
120	608 x 0.50	0.164
150	756 x 0.50	0.132
185	944 x 0.50	0.108
240	1221 x 0.50	0.0817
300	1525 x 0.50	0.0654
400	2037 x 0.50	0.0495

INSULATED WIRE OR CABLE

Nominal outer diameter mm	Approx. linear weight kg/km
11.8	175
13.0	232
14.2	303
15.7	407
17.2	522
18.9	690
20.7	907
22.7	1160
24.7	1415
27.4	1758
28.9	2050
32.7	2660
35.3	3330
39.6	4360

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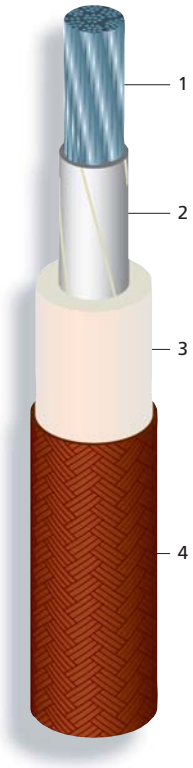
SILICOUL®

3.7 kV

- 60°C to + 180°C (class H)



1 - Flexible tinned copper core - classe 5 - IEC 228.
2 - Separating tape.
3 - Silicone rubber.
4 - Coated synthetic reinforcing braid.

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 ≃ 5 x d.
- Compatible with most impregnation varnishes.

Electrical

- Working voltage: 4.2 kV.
- Test voltage: 10 kV.
- Max. permissible current:
  consult our technical departments.

PRODUCTS

- All cross-sections: brown.

PACKAGING

- Rolls, spools or drums.

OPTIONS

- UL approval, 4.2KV : style 3662.
- Other working voltages: SILICOUL® 1.1 kV, 6.6 kV, 13.8 kV.
- Version without reinforcing braid, ref. SILICOUL® ST: consult us.
- Other cross-sections: consult us.

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, IEC 60332-1 et IEC 60332-3 tests.

APPLICATIONS

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

B

CORE

Nominal cross-section mm²	Nominal stranding	Max. linear resistance at 20°C Ω/km
2.5	50 x 0.25	8.21
4	56 x 0.30	5.09
6	84 x 0.30	3.39
10	80 x 0.40	1.95
16	126 x 0.40	1.24
25	196 x 0.40	0.795
35	276 x 0.40	0.565
50	396 x 0.40	0.393
70	360 x 0.50	0.277
95	485 x 0.50	0.210
120	608 x 0.50	0.164
150	756 x 0.50	0.132
185	944 x 0.50	0.108
240	1221 x 0.50	0.0817
300	1525 x 0.50	0.0654
400	2037 x 0.50	0.0495

INSULATED WIRE OR CABLE

Nominal outer diameter mm	Approx. linear weight kg/km
6.2	57.0
6.8	75.0
7.8	102
9.0	150
10.2	212
11.8	305
13.2	413
15.4	575
17.0	782
19.8	1030
21.8	1290
24.0	1580
25.4	1890
29.2	2451
31.8	3120
35.8	4160

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SILICOUL®

6.6 kV

- 60°C to + 180°C (class H)

B

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 ≃ 5 x d.
- Compatible with most impregnation varnishes.

Electrical

- Working voltage: 7.2 kV.
- Test voltage: 15 kV.
- Max. permissible current: consult our technical departments.

PRODUCTS

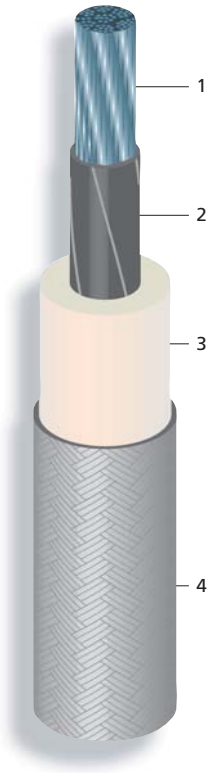
- All cross-sections: grey.

PACKAGING

- Rolls, spools or drums.

OPTIONS

- UL approval, 7.2KV : style 3663.
- Other working voltages: SILICOUL® 1.1 kV, 3.7 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 228.
2 - Semi-conducting 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, IEC 60332-1 et IEC 60332-3 tests.

APPLICATIONS

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

CORE			INSULATED WIRE OR CABLE	
Nominal cross-section mm²	Nominal stranding	Max. linear resistance at 20°C Ω/km	Nominal outer diameter mm	Max. linear weight kg/km
4	56 x 0.30	5.09	8.2	95.0
6	84 x 0.30	3.39	9.1	120
10	80 x 0.40	1.95	10.3	172
16	126 x 0.40	1.24	11.5	238
25	196 x 0.40	0.795	13.0	330
35	276 x 0.40	0.565	14.6	440
50	396 x 0.40	0.393	16.7	612
70	360 x 0.50	0.277	18.3	825
95	485 x 0.50	0.210	20.5	1060
120	608 x 0.50	0.164	22.6	1315
150	756 x 0.50	0.132	24.9	1630
185	944 x 0.50	0.108	26.4	1935
240	1221 x 0.50	0.0817	30.2	2510
300	1525 x 0.50	0.0654	32.9	3180
400	2037 x 0.50	0.0495	37.0	4210

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