

SILIFLON® 7YA and 7YS

VDE approval

-90 °C to +135 °C



Approvals - standards

- 7YA: VDE approval as per standards DIN VDE 0250 Part 1 and DIN VDE 0250 Part 106 - Licence no. 88272.
- 7YS: VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 106486.

Applications

- Cabling in household electrical appliances, electronics.
- Cabling in hot or cold environments (cryogenics).
- Cabling in aggressive environments (humidity, chemicals, etc.).
 - Cabling requiring compact size and excellent mechanical strength.

Characteristics

General

- Continuous operating temperatures:
 - > Bare copper core: -90 °C to +130 °C.
 - > Tin-plated, nickel-plated or silver-plated copper core: -90 °C to +135 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

- | | 7YA | 7YS |
|------------------|-----------|------------|
| • Rated voltage: | 450/750 V | 300/500 V. |
| • Test voltage: | 2500 V | 2000 V. |

Standard products

- All colours including translucent.

Options

- Flexible tin-plated copper core – ref. E7YA and E7YS: contact us.
- Flexible nickel-plated copper core – ref. CN7YA and CN7YS: contact us.
- Flexible silver-plated copper core – ref. A7YA and A7YS: contact us.
- Solid bare copper core – ref. R7YA and R7YS: see details of the option below.
- Solid tin-plated copper core – ref. RE7YA and RE7YS: contact us.

7YA and 7YS

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm ²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)
0.25*	19 x 0.13 or 7 x 0.22	80.7
0.5	16 x 0.20	39.0
0.75	24 x 0.20	26.0
1	32 x 0.20	19.5
1.5	30 x 0.25	13.3
2.5	50 x 0.25	7.98
4	56 x 0.30	4.95
6	84 x 0.30	3.30

INSULATED WIRE

7YA(1)			7YS		
Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.40	1.45	4.6	0.30	1.25	3.9
0.40	1.7	7.8	0.30	1.5	6.9
0.40	1.85	9.9	0.30	1.65	8.9
0.40	2.0	12.6	0.30	1.8	11.6
0.50	2.4	18.9	0.30	2.0	16.5
0.60	3.1	31.0	0.35	2.6	27.2
0.60	3.8	43.6	0.40	3.4	39.7
0.60	4.3	60.1	0.40	3.9	55.7

Option • R7YA and R7YS

Solid core • class 1 as per IEC 60228

Nominal cross-section (mm ²)	Nominal diameter (mm)	Maximum linear resistance at 20 °C (Ω/km)
0.25*	1 x 0.56	73.4
0.5	1 x 0.80	36.0
0.75	1 x 0.98	24.5
1	1 x 1.13	18.1
1.5	1 x 1.36	12.1
2.5	1 x 1.77	7.41
4	1 x 2.24	4.61
6	1 x 2.74	3.08

R7YA(2)

Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
0.40	1.35	4.2	0.30	1.15	3.6
0.40	1.6	7.1	0.30	1.4	6.3
0.40	1.8	9.8	0.30	1.6	8.9
0.40	1.95	12.4	0.30	1.75	11.4
0.50	2.4	18.3	0.30	2.0	15.9
0.60	3.0	30.0	0.35	2.5	26.3
0.60	3.45	44.7	0.40	3.05	41.2
0.60	3.95	63.9	0.40	3.55	59.9

For this product, please contact:

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* Nominal cross-section not included in IEC 60228.

(1) Standardised name: N7YAF VDE.

(2) Standardised name: N7YA VDE.

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LES CABLES DE L'EXTREME

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