SILIFLON® 6YA and 6YS

VDE approval

-90 °C to +180 °C

1 • Flexible bare copper core – class 5 as per IEC 60228 / DIN VDE 0295.
2 • Insulation: Fluorinated polymer FEP.

Approvals - standards

• 6YA: VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 106487.
• 6YS: VDE approval as per standard DIN VDE 0250 Part 106 - Licence no. 107583.

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 +180 °C.
• Excellent resistance to aggressive chemical environments.
• Excellent resistance to humidity and UV.
• Excellent mechanical strength.

Electrical

	6YA	6YS
• 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. E6YA and E6YS: contact us.
• Flexible nickel-plated copper core – ref. CN6YA and CN6YS: contact us.
• Flexible silver-plated copper core – ref. A6YA and A6YS: contact us.
• Solid bare copper core – ref. R6YA and R6YS: see details of the option below.
• Solid tin-plated copper core – ref. RE6YA and RE6YS: contact us.

6YA and 6YS

Flexible core • class 5 as per IEC 60228

Nominal cross-section (mm²)	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km)	INSULATED WIRE 6YA Nominal thickness of insulation (mm)	6YA Nominal diameter (mm)	6YA Approximate linear weight (kg/km)	6YS Nominal thickness of insulation (mm)	6YS Nominal diameter (mm)	6YS Approximate linear weight (kg/km)
0.25*	19 x 0.13 or 7 x 0.22	80.7	0.40	1.45	5.1	0.30	1.25	4.2
0.5	16 x 0.20	39.0	0.40	1.7	7.6	0.30	1.5	6.5
0.6*	19 x 0.20	32.8	0.40	1.7	8.5	0.30	1.5	7.4
0.75	24 x 0.20	26.0	0.40	1.85	9.9	0.30	1.65	8.7
1	32 x 0.20	19.5	0.40	2.0	12.2	0.30	1.8	10.9
1.5	30 x 0.25	13.3	0.50	2.4	17.9	0.30	2.0	14.9
2.5	50 x 0.25	7.98	0.60	3.1	29.8	0.35	2.6	25.0
4	56 x 0.30	4.95	0.60	3.8	46.7	0.40	3.4	41.9
6	84 x 0.30	3.30	0.60	4.3	65.6	0.40	3.9	60.1

Option • R6YA and R6YS

Solid core • class 1 as per IEC 60228

			R6YA			R6YS		
0.25*	1 x 0.56	73.4	0.40	1.35	4.8	0.30	1.15	3.9
0.5	1 x 0.80	36.0	0.40	1.6	7.8	0.30	1.4	6.8
0.75	1 x 0.98	24.5	0.40	1.8	10.6	0.30	1.6	9.5
1	1 x 1.13	18.1	0.40	1.95	13.3	0.30	1.75	12.0
1.5	1 x 1.36	12.1	0.50	2.4	19.7	0.30	2.0	16.7
2.5	1 x 1.77	7.41	0.60	3.0	32.1	0.35	2.5	27.4
4	1 x 2.24	4.61	0.60	3.45	47.1	0.40	3.05	42.7
6	1 x 2.74	3.08	0.60	3.95	66.7	0.40	3.55	61.7

* Nominal cross-sections not described in IEC 60228.

For this product, please contact:

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