

HIGH TEMPERATURE WIRES AND CABLES
FOR THE GENERAL MARKET • SECTION II:
FLUOROPOLYMERS AND THERMOPLASTICS

SILIFLON® Li7Y

VDE approval
-90 °C to +135 °C



FLUOROPOLYMER INSULATED WIRES AND CABLES



- 1 • Concentric bare, tin-plated or silver-plated copper core.
- 2 • Insulation: Fluorinated polymer ETFE.

Approvals - standards

- VDE approval as per standard DIN VDE 0881 - Licence no. 085392.

Applications

- Cabling in electronics and household appliances.
 - Cabling in hot and aggressive environments (humidity, chemicals, etc.).

Options

- Twisted pair or triple or quad with no outer sheath - Standardised reference:

Li7Y n x Cross-section/Østranding
(n being the number of twisted conductors).

Characteristics

General

- Continuous operating temperatures: -90 °C to +135 °C.
- Excellent resistance to aggressive chemical environments.
- Excellent resistance to humidity and UV.
- Excellent mechanical strength.

Electrical

- Rated voltage:
 - > Nominal thickness of insulation (0.15 mm): 375 V.
 - > Nominal thickness of insulation (0.25 mm): 900 V.
 - > Nominal thickness of insulation (0.40 mm): 1500 V.
 - > Nominal thickness of "ECO" insulation: 900 V.
- Test voltage:
 - > Nominal thickness of insulation (0.15 mm): 1500 V.
 - > Nominal thickness of insulation (0.25 mm): 2500 V.
 - > Nominal thickness of insulation (0.40 mm): 3000 V.
 - > Nominal thickness of "ECO" insulation: 2500 V.

Standard products

- All colours including translucent.

For this product, please contact:

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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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LES CABLES DE L'EXTREME

CONCENTRIC CORE				INSULATED WIRE OR CABLE		
Standardised reference	Nominal cross-section	Nominal stranding	Maximum linear resistance at 20 °C (Ω/km) (bare copper core)	Nominal thickness of insulation (mm)	Nominal diameter (mm)	Approximate linear weight (kg/km)
Standardised series						
Li7Y 1 x 0.035 / 0.55	0.035	7 x 0.08	545	0.15	0.55	0.6
Li7Y 1 x 0.055 / 0.6	0.055	7 x 0.10	349	0.15	0.6	0.9
Li7Y 1 x 0.079 / 0.7	0.079	7 x 0.12	236	0.15	0.65	1.1
Li7Y 1 x 0.12 / 0.8	0.12	7 x 0.15	151	0.15	0.75	1.6
Li7Y 1 x 0.22 / 0.9	0.22	7 x 0.20	84.8	0.15	0.9	2.6
Li7Y 1 x 0.34 / 1.1	0.34	7 x 0.25	54.3	0.15	1.05	3.8
Li7Y 1 x 0.56 / 1.3	0.56	19 x 0.20**	32.5	0.15	1.25	5.9
Li7Y 1 x 0.035 / 0.75	0.035	7 x 0.08	545	0.25	0.75	1.0
Li7Y 1 x 0.055 / 0.8	0.055	7 x 0.10	349	0.25	0.8	1.2
Li7Y 1 x 0.079 / 0.9	0.079	7 x 0.12	236	0.25	0.85	1.5
Li7Y 1 x 0.12 / 1.0	0.12	7 x 0.15	151	0.25	0.95	2.0
Li7Y 1 x 0.22 / 1.1	0.22	7 x 0.20	84.8	0.25	1.1	3.1
Li7Y 1 x 0.34 / 1.3	0.34	7 x 0.25	54.3	0.25	1.25	4.4
Li7Y 1 x 0.56 / 1.5	0.56	19 x 0.20**	32.5	0.25	1.45	6.6
Li7Y 1 x 0.93 / 1.8	0.93	19 x 0.25	20.0	0.25	1.75	10.4
Li7Y 1 x 1.3 / 2.0	1.3	19 x 0.29	14.9	0.25	1.95	13.6
Li7Y 1 x 1.9 / 2.3	1.9	19 x 0.36	9.46	0.25	2.3	20.1
Li7Y 1 x 3.2 / 2.8	3.2	19 x 0.46	5.79	0.25	2.8	31.8
Li7Y 1 x 0.12 / 1.3	0.12	7 x 0.15	151	0.40	1.25	2.9
Li7Y 1 x 0.22 / 1.4	0.22	7 x 0.20	84.8	0.40	1.4	4.1
Li7Y 1 x 0.34 / 1.6	0.34	7 x 0.25	54.3	0.40	1.55	5.5
Li7Y 1 x 0.56 / 1.8	0.56	19 x 0.20**	32.5	0.40	1.75	7.9
Li7Y 1 x 0.93 / 2.1	0.93	19 x 0.25	20.0	0.40	2.05	11.9
Li7Y 1 x 1.3 / 2.3	1.3	19 x 0.29	14.9	0.40	2.25	15.2
Li7Y 1 x 1.9 / 2.6	1.9	19 x 0.36	9.46	0.40	2.6	22.1
Li7Y 1 x 3.2 / 3.1	3.2	19 x 0.46	5.79	0.40	3.1	34.2
Li7Y 1 x 4.6 / 3.6	4.6	37 x 0.40	3.93	0.40	3.6	48.7
Li7Y 1 x 8.8 / 5.2	8.8	133 x 0.29*	2.12	0.60	5.2	93.8
Li7Y 1 x 13.5 / 6.2	13.5	133 x 0.36*	1.35	0.60	6.25	140
Economical series						
Li7Y 1 x 0.15 / 0.8	0.15	19 x 0.10	135	0.16	0.8	1.9
Li7Y 1 x 0.22 / 0.9	0.22	19 x 0.12	86.0	0.16	0.9	2.5
Li7Y 1 x 0.36 / 1.1	0.36	19 x 0.15	53.2	0.16	1.1	3.9
Li7Y 1 x 0.59 / 1.3	0.59	19 x 0.20	32.4	0.17	1.3	6.3
Li7Y 1 x 0.93 / 1.55	0.93	19 x 0.25	20.4	0.17	1.55	9.5
Li7Y 1 x 1.3 / 1.8	1.3	19 x 0.29	15.8	0.21	1.8	12.8
Li7Y 1 x 1.9 / 2.15	1.9	19 x 0.36	10.0	0.23	2.15	19.3
Li7Y 1 x 2.8 / 2.7	2.8	37 x 0.31	6.63	0.26	2.7	28.6
Li7Y 1 x 4.6 / 3.4	4.6	37 x 0.40	4.13	0.32	3.4	46.8

* Non-concentric cores.

** Nominal stranding not defined in standard DIN VDE 0881.

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