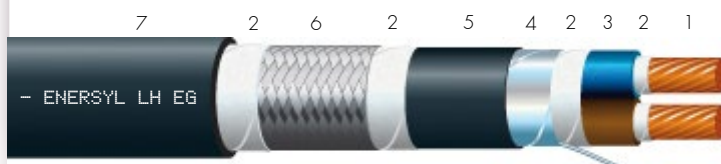


ENERSYL® LH CONTROL

Control cables



Reference

- (example) ENERSYL® LH EG BG CONTROL
19x1,5 mm²
EG, BE, BR: type of electrical screen
BG, FA: type of armour
CONTROL: control cable
19: number of conductors
X, G: type of assembly: without (X)
or with (G) an earth wire
1.5 mm²: cross-section in mm²

Approvals - standards

- IEC 60228 / NF C 32-090.
- IEC 60332-1.

Markings

- OMERIN – ENERSYL < LH xx xx CONTROL >
< cross-section > – 450/750V – < batch > – < year >

Standard products

- Sheath: black.
- Colour identification of conductors:
< up to 5 conductors: as per HD 308 S2.
> more than 5 conductors: black numbered.

Technical characteristics

Thermal

- Continuous operating temperature: -30 °C to +80 °C.
- Maximum core temperature: +90 °C.

Electrical

- Rated voltage: 450/750 V.
- Test voltage: 2500 V.

Smoke - fire

- Flame retardant – cable alone:
IEC 60332-1-2 / NF EN 60332-1-2 / NF C 32-070 test C2.

Resistance of outer sheath to chemical attacks as per OMERIN test report NT140825-01:

- Good resistance to acid.
- Good resistance to base.
- Resistance to water: type AD7 as per IEC 60529 without immersion of ends.

Options

- FLEX: flexible tin-plated copper core, class 5 as per IEC 60228.
- Other colours: contact us.
- ATEX as per EN 60079-14.
Particularly suited for static facilities in potentially explosive environments except for "i" intrinsic safety protection mode, requiring specific identification of cables.
Colour of the sheath: blue as per EN 60079-14 part 16.2.2.6.
> ENERSYL® LH EX CONTROL: without electrical screen.
> ENERSYL® LH BE EX CONTROL: with electrical screen.

For this product, please contact:

OMERIN division principale
Zone Industrielle - F 63600 Ambert
Tel. +33 (0)4 73 82 50 00 - Fax +33 (0)4 73 82 50 10
omerin@omerin.com

OMERIN division silisol
BP 87 - ZI du Devey - F 42000 Saint-Étienne
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

www.omerin.com

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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NON-SHIELDED CABLES							ARMoured CABLES			
Nominal cross-section (mm ²)	Nominal stranding	Nominal thickness of insulation (mm)	Nominal diameter of conductors (mm)	Nominal thickness of the sheath (mm)	Nominal outside diameter* (mm)	Approximate linear weight (kg/km)	Nominal thickness of the sheath (mm)	Nominal outside diameter* (mm)	Approximate linear weight (kg/km)	Max. linear resistance at 20 °C (Ω/km)
2 x 0.34	7 / 0.25	0.6	1.9	0.6	5.2	32	1.0	8.3	99	57.5
3 x 0.34	7 / 0.25	0.6	1.9	0.6	5.5	37	1.0	8.6	107	57.5
4 x 0.34	7 / 0.25	0.6	1.9	0.6	6.0	44	1.0	9.1	120	57.5
5 x 0.34	7 / 0.25	0.6	1.9	0.6	6.5	42	1.0	9.6	124	57.5
7 x 0.34	7 / 0.25	0.6	1.9	0.6	7.1	54	1.0	10.3	144	57.5
12 x 0.34	7 / 0.25	0.6	1.9	0.8	9.7	94	1.0	12.9	214	57.5
19 x 0.34	7 / 0.25	0.6	1.9	1.0	11.7	147	1.1	15.1	296	57.5
24 x 0.34	7 / 0.25	0.6	1.9	1.1	13.8	187	1.2	17.4	368	57.5
27 x 0.34	7 / 0.25	0.6	1.9	1.1	14.1	204	1.2	17.8	393	57.5
37 x 0.34	7 / 0.25	0.6	1.9	1.2	15.9	272	1.3	20.0	512	57.5
2 x 0.5	7 / 0.30	0.6	2.1	0.6	5.6	38	1.0	8.7	110	36.0
3 x 0.5	7 / 0.30	0.6	2.1	0.6	5.9	45	1.0	9.0	120	36.0
4 x 0.5	7 / 0.30	0.6	2.1	0.6	6.5	54	1.0	9.6	136	36.0
5 x 0.5	7 / 0.30	0.6	2.1	0.6	7.1	52	1.0	10.3	143	36.0
7 x 0.5	7 / 0.30	0.6	2.1	0.8	8.1	75	1.0	11.3	177	36.0
12 x 0.5	7 / 0.30	0.6	2.1	0.8	10.5	119	1.1	13.9	254	36.0
19 x 0.5	7 / 0.30	0.6	2.1	1.0	12.7	186	1.2	16.3	354	36.0
24 x 0.5	7 / 0.30	0.6	2.1	1.1	15.0	237	1.2	18.9	456	36.0
27 x 0.5	7 / 0.30	0.6	2.1	1.2	15.5	266	1.2	19.4	493	36.0
37 x 0.5	7 / 0.30	0.6	2.1	1.2	17.3	347	1.3	21.4	607	36.0
2 x 0.75	7 / 0.37	0.6	2.2	0.6	5.8	44	1.0	8.9	118	24.5
3 x 0.75	7 / 0.37	0.6	2.2	0.6	6.2	53	1.0	9.3	131	24.5
4 x 0.75	7 / 0.37	0.6	2.2	0.6	6.7	65	1.0	9.8	149	24.5
5 x 0.75	7 / 0.37	0.6	2.2	0.8	7.7	71	1.0	10.9	168	24.5
7 x 0.75	7 / 0.37	0.6	2.2	0.8	8.4	92	1.0	11.6	197	24.5
12 x 0.75	7 / 0.37	0.6	2.2	1.0	11.4	157	1.1	14.8	302	24.5
19 x 0.75	7 / 0.37	0.6	2.2	1.1	13.4	236	1.2	17.0	412	24.5
24 x 0.75	7 / 0.37	0.6	2.2	1.2	15.8	300	1.3	19.9	539	24.5
27 x 0.75	7 / 0.37	0.6	2.2	1.2	16.1	330	1.3	20.2	573	24.5
37 x 0.75	7 / 0.37	0.6	2.2	1.2	18.0	433	1.3	22.1	703	24.5
2 x 1	7 / 0.43	0.6	2.4	0.6	6.2	53	1.0	9.3	131	18.1
3 x 1	7 / 0.43	0.6	2.4	0.6	6.6	64	1.0	9.7	146	18.1
4 x 1	7 / 0.43	0.6	2.4	0.8	7.6	85	1.0	10.8	181	18.1
5 x 1	7 / 0.43	0.6	2.4	0.8	8.3	85	1.0	11.5	189	18.1
7 x 1	7 / 0.43	0.6	2.4	0.8	9.0	112	1.0	12.2	224	18.1
12 x 1	7 / 0.43	0.6	2.4	1.0	12.2	191	1.2	15.8	353	18.1
19 x 1	7 / 0.43	0.6	2.4	1.1	14.4	290	1.2	18.1	482	18.1
24 x 1	7 / 0.43	0.6	2.4	1.2	17.0	368	1.3	21.1	624	18.1
27 x 1	7 / 0.43	0.6	2.4	1.2	17.4	406	1.3	21.4	667	18.1
37 x 1	7 / 0.43	0.6	2.4	1.3	19.6	545	1.3	23.7	837	18.1
2 x 1.5	7 / 0.52	0.6	2.85	0.6	7.1	72	1.0	10.3	162	12.1
3 x 1.5	7 / 0.52	0.6	2.85	0.8	8.0	94	1.0	11.2	195	12.1
4 x 1.5	7 / 0.52	0.6	2.85	0.8	8.7	116	1.0	11.9	224	12.1
5 x 1.5	7 / 0.52	0.6	2.85	0.8	9.5	118	1.0	12.7	236	12.1
7 x 1.5	7 / 0.52	0.6	2.85	0.8	10.4	156	1.1	13.8	290	12.1
12 x 1.5	7 / 0.52	0.6	2.85	1.1	14.3	274	1.2	18.0	464	12.1
19 x 1.5	7 / 0.52	0.6	2.85	1.2	16.9	416	1.3	20.9	670	12.1
24 x 1.5	7 / 0.52	0.6	2.85	1.3	19.9	528	1.3	24.0	824	12.1
27 x 1.5	7 / 0.52	0.6	2.85	1.3	20.3	583	1.3	24.4	886	12.1
37 x 1.5	7 / 0.52	0.6	2.85	1.3	22.8	774	1.4	27.0	1122	12.1
2 x 2.5	7 / 0.67	0.6	3.2	0.8	8.2	104	1.0	11.4	207	7.41
3 x 2.5	7 / 0.67	0.6	3.2	0.8	8.7	129	1.0	11.9	238	7.41
4 x 2.5	7 / 0.67	0.6	3.2	0.8	9.5	161	1.0	12.7	279	7.41
5 x 2.5	7 / 0.67	0.6	3.2	0.8	10.4	168	1.1	13.8	303	7.41
7 x 2.5	7 / 0.67	0.6	3.2	1.0	11.8	236	1.1	15.2	386	7.41
12 x 2.5	7 / 0.67	0.6	3.2	1.2	15.9	401	1.3	20.0	641	7.41
19 x 2.5	7 / 0.67	0.6	3.2	1.2	18.6	604	1.3	22.7	882	7.41
24 x 2.5	7 / 0.67	0.6	3.2	1.3	22.0	766	1.4	26.3	1102	7.41
27 x 2.5	7 / 0.67	0.6	3.2	1.3	22.5	850	1.4	26.7	1194	7.41
37 x 2.5	7 / 0.67	0.6	3.2	1.4	25.4	1147	1.4	29.7	1533	7.41

* The rated outer diameter of cables may vary by +/- 1.5% depending on the options selected.