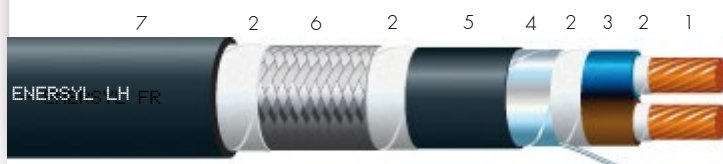


ENERSYL® LH POWER

Multicore power cables



- 1 • Stranded bare copper core, class 2 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: cross-linked polyethylene, type PR as per IEC 60502-1 + optional filler(s).
- 4 • (optional) Electrical screen: aluminium/PET tape + continuity wire (EG) / tin-plated copper braid (BE) / bare copper braid (BR).
- 5 • (optional) Internal sheath: PVC, type ST2 as per IEC 60502-1.
- 6 • (optional) Armour: galvanized steel braid (BG) / double steel tape (FA).
- 7 • Outer sheath: PVC, type ST2 as per IEC 60502-1.

Reference

- (example) ENERSYL® LH EG BG POWER 2x4 mm²
EG, BE, BR: type of electrical screen
BG, FA: type of armour
POWER: power cable
2: number of conductors
X, G: type of assembly: without (X)
or with (G) an earth wire
4 mm²: cross-section in mm²

Approvals - standards

- IEC 60228 / IEC 60502-1.
- IEC 60332-1.

Markings

- OMERIN – ENERSYL < LH xx xx POWER >
< cross-section > – 600/1000V – < 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: 600/1000 V.
- Test voltage: 3500 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 NF C 15-100 part 4-42 / EN 60079-14.
Particularly suited for static facilities in potentially explosive environments, excluding the "i" intrinsic safety protection mode.
> ENERSYL® LH BG EX POWER: with a PVC sheath under the armour
and without hygroscopic separating tape.

For this product, please contact:

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LES CABLES DE L'EXTREME

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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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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 1.5	7 / 0.52	0.7	3.1	1.8	10.3	111	1.8	13.9	244	12.1
3 x 1.5	7 / 0.52	0.7	3.1	1.8	10.8	134	1.8	14.4	273	12.1
4 x 1.5	7 / 0.52	0.7	3.1	1.8	11.6	160	1.8	15.3	312	12.1
5 x 1.5	7 / 0.52	0.7	3.1	1.8	12.5	186	1.8	16.2	348	12.1
7 x 1.5	7 / 0.52	0.7	3.1	1.8	13.4	231	1.8	17.1	405	12.1
12 x 1.5	7 / 0.52	0.7	3.1	1.8	17.1	358	1.8	21.0	599	12.1
19 x 1.5	7 / 0.52	0.7	3.1	1.8	19.7	511	1.8	23.6	788	12.1
24 x 1.5	7 / 0.52	0.7	3.1	1.8	22.8	631	1.8	26.9	963	12.1
27 x 1.5	7 / 0.52	0.7	3.1	1.8	23.3	691	1.8	27.3	1029	12.1
37 x 1.5	7 / 0.52	0.7	3.1	1.8	25.9	901	1.8	30.0	1276	12.1
2 x 2.5	7 / 0.67	0.7	3.5	1.8	11.1	137	1.8	14.7	280	7.41
3 x 2.5	7 / 0.67	0.7	3.5	1.8	11.7	170	1.8	15.4	323	7.41
4 x 2.5	7 / 0.67	0.7	3.5	1.8	12.6	206	1.8	16.3	370	7.41
5 x 2.5	7 / 0.67	0.7	3.5	1.8	13.6	243	1.8	17.3	419	7.41
7 x 2.5	7 / 0.67	0.7	3.5	1.8	14.6	308	1.8	18.3	498	7.41
12 x 2.5	7 / 0.67	0.7	3.5	1.8	18.8	488	1.8	22.6	752	7.41
19 x 2.5	7 / 0.67	0.7	3.5	1.8	21.7	711	1.8	25.6	1015	7.41
24 x 2.5	7 / 0.67	0.7	3.5	1.8	25.2	883	1.8	29.3	1248	7.41
27 x 2.5	7 / 0.67	0.7	3.5	1.8	25.7	972	1.8	29.8	1345	7.41
37 x 2.5	7 / 0.67	0.7	3.5	1.8	28.7	1281	1.9	33.2	1725	7.41
2 x 4	7 / 0.85	0.7	4.2	1.8	12.5	179	1.8	16.2	342	4.61
3 x 4	7 / 0.85	0.7	4.2	1.8	13.2	228	1.8	16.9	400	4.61
4 x 4	7 / 0.85	0.7	4.2	1.8	14.3	280	1.8	18.0	466	4.61
5 x 4	7 / 0.85	0.7	4.2	1.8	15.5	337	1.8	19.1	533	4.61
7 x 4	7 / 0.85	0.7	4.2	1.8	16.8	434	1.8	20.7	672	4.61
12 x 4	7 / 0.85	0.7	4.2	1.8	21.7	693	1.8	25.5	996	4.61
2 x 6	7 / 1.04	0.7	4.8	1.8	13.7	229	1.8	17.4	407	3.08
3 x 6	7 / 1.04	0.7	4.8	1.8	14.5	299	1.8	18.2	486	3.08
4 x 6	7 / 1.04	0.7	4.8	1.8	15.8	376	1.8	19.4	576	3.08
5 x 6	7 / 1.04	0.7	4.8	1.8	17.2	451	1.8	21.0	693	3.08
7 x 6	7 / 1.04	0.7	4.8	1.8	18.6	590	1.8	22.5	852	3.08
2 x 10	7 / 1.33	0.7	5.5	1.8	15.1	309	1.8	18.8	504	1.83
3 x 10	7 / 1.33	0.7	5.5	1.8	16.1	417	1.8	19.7	620	1.83
4 x 10	7 / 1.33	0.7	5.5	1.8	17.5	527	1.8	21.4	774	1.83
5 x 10	7 / 1.33	0.7	5.5	1.8	19.1	637	1.8	22.9	905	1.83
2 x 16	7 / 1.68	0.7	6.6	1.8	17.4	440	1.8	21.3	685	1.15
3 x 16	7 / 1.68	0.7	6.6	1.8	18.5	600	1.8	22.3	860	1.15
4 x 16	7 / 1.68	0.7	6.6	1.8	20.2	767	1.8	24.0	1050	1.15
5 x 16	7 / 1.68	0.7	6.6	1.8	22.0	934	1.8	25.9	1243	1.15
2 x 25	7 strands	0.9	8.1	1.8	20.4	634	1.8	24.3	920	0.727
3 x 25	7 strands	0.9	8.1	1.8	21.7	881	1.8	25.6	1185	0.727
4 x 25	7 strands	0.9	8.1	1.8	23.8	1135	1.8	27.9	1480	0.727
5 x 25	7 strands	0.9	8.1	1.8	26.1	1390	1.8	30.1	1767	0.727
2 x 35	7 strands	0.9	8.9	1.8	22.0	826	1.8	26.1	1146	0.524
3 x 35	7 strands	0.9	8.9	1.8	23.4	1163	1.8	27.5	1503	0.524
4 x 35	7 strands	0.9	8.9	1.8	25.7	1508	1.9	30.0	1894	0.524
5 x 35	7 strands	0.9	8.9	1.8	28.2	1854	2.0	32.9	2305	0.524
2 x 50	19 strands	1.0	10.1	1.8	24.4	1089	1.8	28.5	1444	0.387
3 x 50	19 strands	1.0	10.1	1.8	26.0	1550	1.9	30.3	1940	0.387
4 x 50	19 strands	1.0	10.1	1.9	28.8	2031	2.0	33.3	2476	0.387
5 x 50	19 strands	1.0	10.1	2.0	31.9	2517	2.1	36.5	3022	0.387
2 x 70	19 strands	1.1	12.0	1.8	28.2	1469	2.0	32.9	1919	0.268
3 x 70	19 strands	1.1	12.0	1.9	30.3	2118	2.0	34.8	2585	0.268
4 x 70	19 strands	1.1	12.0	2.0	33.6	2781	2.1	38.3	3313	0.268
2 x 95	19 strands	1.1	13.6	1.9	31.6	1990	2.1	36.5	2508	0.193
3 x 95	19 strands	1.1	13.6	2.0	34.0	2884	2.2	38.8	3438	0.193

* The rated outer diameter of cables may vary by +/- 1.5% depending on the options selected (excluding FLEX option +/- 25%).