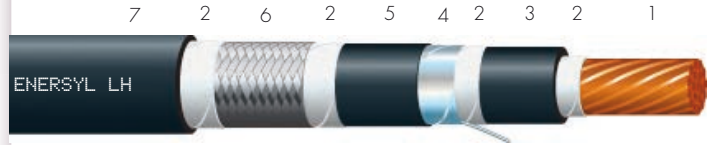


# ENERSYL® LH POWER

## Single core power cables



### Reference

- (example) ENERSYL® LH EG BG POWER 150 mm<sup>2</sup>  
EG, BE, BR: type of electrical screen  
BG, FA: type of armour  
POWER: power cable  
150 mm<sup>2</sup>: cross-section in mm<sup>2</sup>

### 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.
- Insulation: black.

- 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.
- 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.

### 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.

#### 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 silicone sheath under the armour and without hygroscopic separating tape.

For this product, please contact:



**SEVI KABEL**

VIA DEI MARINAI D'ITALIA, 1 - 10034 CHIVASSO (TO) - Tel. 011.910.11.12 / 011.910.67.78 - Fax 011.913.13.13 - info@sevikabel.it

Nominal cross-section (mm <sup>2</sup> )	Nominal stranding	Nominal thickness of insulation (mm)	Nominal diameter of conductors (mm)	NON-SHIELDED CABLES			ARMoured CABLES			Max. linear resistance at 20 °C (Ω/km)
				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)	
1.5	7 / 0.52	0.7	3.1	1.4	6.3	54	1.4	9.9	142	12.1
2.5	7 / 0.67	0.7	3.5	1.4	6.7	66	1.4	10.3	159	7.41
4	7 / 0.85	0.7	4.2	1.4	7.4	86	1.4	11.0	187	4.61
6	7 / 1.04	0.7	4.8	1.4	8.0	110	1.4	11.6	218	3.08
10	7 / 1.33	0.7	5.5	1.4	8.8	150	1.4	12.4	268	1.83
16	7 / 1.68	0.7	6.6	1.4	9.9	212	1.4	13.5	343	1.15
25	7 strands	0.9	8.1	1.4	11.4	306	1.4	15.0	456	0.727
35	7 strands	0.9	8.9	1.4	12.2	400	1.4	15.9	563	0.524
50	19 strands	1.0	10.1	1.4	13.4	530	1.5	17.3	715	0.387
70	19 strands	1.1	12.0	1.4	15.4	719	1.5	19.2	926	0.268
95	19 strands	1.1	13.6	1.5	17.2	978	1.6	21.3	1233	0.193
120	19 strands	1.2	16.0	1.5	19.6	1239	1.7	23.9	1538	0.153
150	19 strands	1.4	17.4	1.6	21.2	1502	1.7	25.5	1824	0.124
185	37 strands	1.6	20.4	1.7	24.4	1897	1.8	28.7	2264	0.0991
240	37 strands	1.7	22.4	1.7	26.4	2394	1.9	31.1	2817	0.0754
300	61 strands	1.8	26.7	1.8	30.9	3043	2.0	35.6	3534	0.0601
400	61 strands	2.0	30.0	1.9	34.4	3857	2.1	39.3	4419	0.0470

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

For this product, please contact:

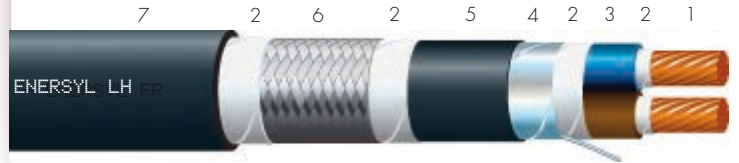


**SEVI KABEL**

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# ENERSYL® LH POWER

## Multicore power cables



### Reference

- (example) ENERSYL® LH EG BG POWER 2x4 mm<sup>2</sup>  
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 mm<sup>2</sup>: cross-section in mm<sup>2</sup>

### 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.

- 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.

### 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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### NON-SHIELDED CABLES

### ARMoured CABLES

Nominal cross-section (mm <sup>2</sup> )	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 +/- 15% depending on the options selected (excluding FLEX option +/- 25%).