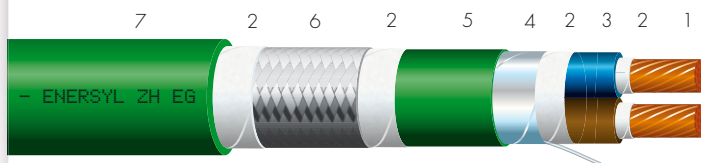


ENERSYL® ZH CONTROL

Control cables



- 1 • Stranded bare copper core, class 2 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: cross-linked halogen-free polyolefine + 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: HFFR, type ST8 as per IEC 60502-1.
- 6 • (optional) Armour: galvanized steel braid (BG) / double steel tape (FA).
- 7 • Outer sheath: HFFR, type ST8 as per IEC 60502-1.

Reference

- (example) **ENERSYL® ZH EG BG CONTROL**
19x1,5 mm²
ZH: halogen free
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.
- IEC 60332-1 / IEC 60332-3.
- IEC 61034-2 / IEC 60754-1 / IEC 60754-2.

Markings

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

Standard products

- Sheath: green.
- Colour identification of conductors:
> up to 5 conductors: as per HD 308 S2.
> more than 5 conductors: white 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.
- Flame retardant – bunched cable:
IEC 60332-3-24 cat. C / NF EN 60332-3-24 cat. C.
- Low smoke density: IEC 61034-2 / NF EN 61034-2.
- Halogen-free: IEC 60754-1 / NF EN 60754-1.
- Low corrosivity of gas emissions: IEC 60754-2 / NF EN 60754-2.

Resistance of outer sheath to chemical attacks as per OMERIN test report NT140220-01:

- Good resistance to acid.
- Good resistance to base.
- Fairly good resistance to aliphatic hydrocarbons.
- Resistance to water: type AD7 as per IEC 60529 without immersion of ends.
- Resistance to UV ≥ 2000 hours as per EN 16472.

Options

- **FLEX**: flexible tin-plated copper core, class 5 as per IEC 60228.
- **C1**: Fire retardant cable as per NF C 32-070 test C1: contact us.
- **Other colours**: contact us.
- **105 °C cable**: contact us.
- **ATEX** as per EN 60079-14.
Particularly suited for static facilities in potentially explosive environments with "i" intrinsic safety protection mode, requiring specific identification of cables.
Colour of the sheath: blue as per EN 60079-14 part 12.2.2.6.
> **ENERSYL® ZH EX CONTROL**: no electrical screen.
> **ENERSYL® ZH BE EX CONTROL**: with electrical screen.

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

				NON-SHIELDED CABLES			ARMoured CABLES			Max. linear resistance at 20° (Ω/km)
Nominal cross-section (mm²)	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)	
2 x 0.34	7 / 0.25	0.6	1.9	0.6	5.2	34	1.0	8.3	105	57.5
3 x 0.34	7 / 0.25	0.6	1.9	0.6	5.5	39	1.0	8.6	113	57.5
4 x 0.34	7 / 0.25	0.6	1.9	0.6	6.0	46	1.0	9.1	126	57.5
5 x 0.34	7 / 0.25	0.6	1.9	0.6	6.5	43	1.0	9.6	130	57.5
7 x 0.34	7 / 0.25	0.6	1.9	0.6	7.1	56	1.0	10.3	151	57.5
12 x 0.34	7 / 0.25	0.6	1.9	0.8	9.7	97	1.0	12.9	224	57.5
19 x 0.34	7 / 0.25	0.6	1.9	1.0	11.7	151	1.1	15.1	308	57.5
24 x 0.34	7 / 0.25	0.6	1.9	1.1	13.8	193	1.2	17.4	384	57.5
27 x 0.34	7 / 0.25	0.6	1.9	1.1	14.1	211	1.2	17.8	409	57.5
37 x 0.34	7 / 0.25	0.6	1.9	1.2	15.9	280	1.3	20.0	532	57.5
2 x 0.5	7 / 0.30	0.6	2.1	0.6	5.6	41	1.0	8.7	116	36.0
3 x 0.5	7 / 0.30	0.6	2.1	0.6	5.9	47	1.0	9.0	127	36.0
4 x 0.5	7 / 0.30	0.6	2.1	0.6	6.5	57	1.0	9.6	142	36.0
5 x 0.5	7 / 0.30	0.6	2.1	0.6	7.1	54	1.0	10.3	149	36.0
7 x 0.5	7 / 0.30	0.6	2.1	0.8	8.1	78	1.0	11.3	185	36.0
12 x 0.5	7 / 0.30	0.6	2.1	0.8	10.5	122	1.1	13.9	265	36.0
19 x 0.5	7 / 0.30	0.6	2.1	1.0	12.7	191	1.2	16.3	368	36.0
24 x 0.5	7 / 0.30	0.6	2.1	1.1	15.0	244	1.2	18.9	474	36.0
27 x 0.5	7 / 0.30	0.6	2.1	1.2	15.5	274	1.2	19.4	512	36.0
37 x 0.5	7 / 0.30	0.6	2.1	1.2	17.3	356	1.3	21.4	629	36.0
2 x 0.75	7 / 0.37	0.6	2.2	0.6	5.8	47	1.0	8.9	125	24.5
3 x 0.75	7 / 0.37	0.6	2.2	0.6	6.2	56	1.0	9.3	137	24.5
4 x 0.75	7 / 0.37	0.6	2.2	0.6	6.7	68	1.0	9.8	156	24.5
5 x 0.75	7 / 0.37	0.6	2.2	0.8	7.7	73	1.0	10.9	176	24.5
7 x 0.75	7 / 0.37	0.6	2.2	0.8	8.4	94	1.0	11.6	205	24.5
12 x 0.75	7 / 0.37	0.6	2.2	1.0	11.4	161	1.1	14.8	314	24.5
19 x 0.75	7 / 0.37	0.6	2.2	1.1	13.4	242	1.2	17.0	428	24.5
24 x 0.75	7 / 0.37	0.6	2.2	1.2	15.8	308	1.3	19.9	559	24.5
27 x 0.75	7 / 0.37	0.6	2.2	1.2	16.1	338	1.3	20.2	594	24.5
37 x 0.75	7 / 0.37	0.6	2.2	1.2	18.0	442	1.3	22.1	726	24.5
2 x 1	7 / 0.43	0.6	2.4	0.6	6.2	55	1.0	9.3	138	18.1
3 x 1	7 / 0.43	0.6	2.4	0.6	6.6	66	1.0	9.7	153	18.1
4 x 1	7 / 0.43	0.6	2.4	0.8	7.6	88	1.0	10.8	189	18.1
5 x 1	7 / 0.43	0.6	2.4	0.8	8.3	88	1.0	11.5	197	18.1
7 x 1	7 / 0.43	0.6	2.4	0.8	9.0	115	1.0	12.2	233	18.1
12 x 1	7 / 0.43	0.6	2.4	1.0	12.2	196	1.2	15.8	367	18.1
19 x 1	7 / 0.43	0.6	2.4	1.1	14.4	296	1.2	18.1	499	18.1
24 x 1	7 / 0.43	0.6	2.4	1.2	17.0	377	1.3	21.1	645	18.1
27 x 1	7 / 0.43	0.6	2.4	1.2	17.4	415	1.3	21.4	689	18.1
37 x 1	7 / 0.43	0.6	2.4	1.3	19.6	555	1.3	23.7	862	18.1
2 x 1.5	7 / 0.52	0.6	2.85	0.6	7.1	75	1.0	10.3	171	12.1
3 x 1.5	7 / 0.52	0.6	2.85	0.8	8.0	99	1.0	11.2	204	12.1
4 x 1.5	7 / 0.52	0.6	2.85	0.8	8.7	121	1.0	11.9	235	12.1
5 x 1.5	7 / 0.52	0.6	2.85	0.8	9.5	121	1.0	12.7	245	12.1
7 x 1.5	7 / 0.52	0.6	2.85	0.8	10.4	160	1.1	13.8	300	12.1
12 x 1.5	7 / 0.52	0.6	2.85	1.1	14.3	280	1.2	18.0	481	12.1
19 x 1.5	7 / 0.52	0.6	2.85	1.2	16.9	425	1.3	20.9	691	12.1
24 x 1.5	7 / 0.52	0.6	2.85	1.3	19.9	539	1.3	24.0	850	12.1
27 x 1.5	7 / 0.52	0.6	2.85	1.3	20.3	594	1.3	24.4	912	12.1
37 x 1.5	7 / 0.52	0.6	2.85	1.3	22.8	786	1.4	27.0	1152	12.1
2 x 2.5	7 / 0.67	0.6	3.2	0.8	8.2	109	1.0	11.4	217	7.41
3 x 2.5	7 / 0.67	0.6	3.2	0.8	8.7	134	1.0	11.9	249	7.41
4 x 2.5	7 / 0.67	0.6	3.2	0.8	9.5	167	1.0	12.7	291	7.41
5 x 2.5	7 / 0.67	0.6	3.2	0.8	10.4	172	1.1	13.8	313	7.41
7 x 2.5	7 / 0.67	0.6	3.2	1.0	11.8	241	1.1	15.2	399	7.41
12 x 2.5	7 / 0.67	0.6	3.2	1.2	15.9	408	1.3	20.0	661	7.41
19 x 2.5	7 / 0.67	0.6	3.2	1.2	18.6	613	1.3	22.7	906	7.41
24 x 2.5	7 / 0.67	0.6	3.2	1.3	22.0	777	1.4	26.3	1132	7.41
27 x 2.5	7 / 0.67	0.6	3.2	1.3	22.5	862	1.4	26.7	1224	7.41
37 x 2.5	7 / 0.67	0.6	3.2	1.4	25.4	1162	1.4	29.7	1568	7.41

* The rated outer diameter of cables may vary by +/- 15% depending on the options selected.