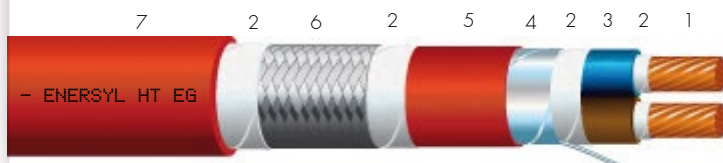


ENERSYL® HT CONTROL

Control cables



Reference

- (example) ENERSYL® HT EG BG CONTROL
19x1,5 mm²
HT: high temperature
EG, BE, BR: type of electrical screen
BG: 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 / IEC 60332-3 / NF C 32-070
test C1
- IEC 60331-21 / NF EN 50200.
- IEC 61034-2 / IEC 60754-1 / IEC 60754-2.

Markings

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

Standard products

- Sheath: brick red.
- 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: -60 °C to +200 °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 60332-3-22 cat. A / NF EN 60332-3-22 cat. A.
- Fire retardant: NF C 32-070 test C1.
- Fire resistant: IEC 60331-21 / NF EN 50200.
- 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 NT140102-01:

- Good resistance to acid.
- Fairly good resistance to base.
- Good resistance to IRM 902 mineral oil.
- 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.
- Other colours: 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 16.2.2.6.
> ENERSYL® HT EX CONTROL: no electrical screen.
> ENERSYL® HT BE EX CONTROL: with electrical screen.

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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				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	2.0	0.8	5,8	42	1.0	8,9	118	57,5
3 x 0.34	7 / 0.25	0.6	2.0		6,1	49	1.2	9,6	137	57,5
4 x 0.34	7 / 0.25	0.6	2.0	1.0	7,0	65	1.4	11,0	175	57,5
5 x 0.34	7 / 0.25	0.6	2.0		7,6	66	1.4	11,6	185	57,5
7 x 0.34	7 / 0.25	0.6	2.0	1.0	8,2	83	1.4	12,2	209	57,5
12 x 0.34	7 / 0.25	0.6	2.0		11,3	148	1.5	15,5	323	57,5
19 x 0.34	7 / 0.25	0.6	2.0	1.4	13,0	208	1.5	17,2	406	57,5
24 x 0.34	7 / 0.25	0.6	2.0		15,2	263	1.6	19,9	524	57,5
27 x 0.34	7 / 0.25	0.6	2.0	1.5	15,5	286	1.6	20,2	552	57,5
37 x 0.34	7 / 0.25	0.6	2.0		17,2	367	1.8	22,3	679	57,5
2 x 0.5	7 / 0.30	0.6	2.1	0.8	6,0	47	1.2	9,5	133	36,0
3 x 0.5	7 / 0.30	0.6	2.1		6,3	55	1.2	9,8	146	36,0
4 x 0.5	7 / 0.30	0.6	2.1	1.0	7,3	73	1.4	11,3	187	36,0
5 x 0.5	7 / 0.30	0.6	2.1		7,9	76	1.4	11,9	198	36,0
7 x 0.5	7 / 0.30	0.6	2.1	1.0	8,5	96	1.4	12,5	226	36,0
12 x 0.5	7 / 0.30	0.6	2.1		11,7	171	1.5	15,9	351	36,0
19 x 0.5	7 / 0.30	0.6	2.1	1.4	13,5	242	1.5	17,7	447	36,0
24 x 0.5	7 / 0.30	0.6	2.1		15,8	306	1.6	20,5	577	36,0
27 x 0.5	7 / 0.30	0.6	2.1	1.5	16,1	334	1.6	20,8	609	36,0
37 x 0.5	7 / 0.30	0.6	2.1		17,9	432	1.8	23,0	756	36,0
2 x 0.75	7 / 0.37	0.6	2.4	1.0	7,0	65	1.4	11,0	175	24,5
3 x 0.75	7 / 0.37	0.6	2.4		7,4	77	1.4	11,4	192	24,5
4 x 0.75	7 / 0.37	0.6	2.4	1.0	8,0	92	1.4	12,0	216	24,5
5 x 0.75	7 / 0.37	0.6	2.4		8,7	96	1.4	12,7	229	24,5
7 x 0.75	7 / 0.37	0.6	2.4	1.2	9,8	131	1.4	13,8	279	24,5
12 x 0.75	7 / 0.37	0.6	2.4		13,0	218	1.5	17,2	415	24,5
19 x 0.75	7 / 0.37	0.6	2.4	1.5	15,2	320	1.6	19,9	582	24,5
24 x 0.75	7 / 0.37	0.6	2.4		17,6	396	1.8	22,7	715	24,5
27 x 0.75	7 / 0.37	0.6	2.4	1.6	18,2	442	1.8	23,2	770	24,5
37 x 0.75	7 / 0.37	0.6	2.4		20,3	580	2.0	25,8	966	24,5
2 x 1	7 / 0.43	0.6	2.5	1.0	7,1	70	1.4	11,1	182	18,1
3 x 1	7 / 0.43	0.6	2.5		7,5	84	1.4	11,5	201	18,1
4 x 1	7 / 0.43	0.6	2.5	1.0	8,1	102	1.4	12,1	227	18,1
5 x 1	7 / 0.43	0.6	2.5		8,8	107	1.4	12,8	242	18,1
7 x 1	7 / 0.43	0.6	2.5	1.2	10,0	147	1.5	14,2	303	18,1
12 x 1	7 / 0.43	0.6	2.5		13,2	244	1.5	17,4	445	18,1
19 x 1	7 / 0.43	0.6	2.5	1.5	15,5	362	1.6	20,2	628	18,1
24 x 1	7 / 0.43	0.6	2.5		18,2	457	1.8	23,2	785	18,1
27 x 1	7 / 0.43	0.6	2.5	1.6	18,6	505	1.8	23,7	841	18,1
37 x 1	7 / 0.43	0.6	2.5		20,7	660	2.0	26,2	1053	18,1
2 x 1.5	7 / 0.52	0.6	2.8	1.0	7,8	89	1.4	11,8	210	12,1
3 x 1.5	7 / 0.52	0.6	2.8		8,2	108	1.4	12,2	235	12,1
4 x 1.5	7 / 0.52	0.6	2.8	1.0	8,9	132	1.4	12,9	269	12,1
5 x 1.5	7 / 0.52	0.6	2.8		10,2	149	1.5	14,4	308	12,1
7 x 1.5	7 / 0.52	0.6	2.8	1.4	11,4	203	1.5	15,6	379	12,1
12 x 1.5	7 / 0.52	0.6	2.8		14,8	329	1.6	19,3	565	12,1
19 x 1.5	7 / 0.52	0.6	2.8	1.5	17,2	483	1.8	22,3	795	12,1
24 x 1.5	7 / 0.52	0.6	2.8		20,3	614	2.0	25,8	1000	12,1
27 x 1.5	7 / 0.52	0.6	2.8	1.6	20,7	676	2.0	26,2	1070	12,1
37 x 1.5	7 / 0.52	0.6	2.8		23,5	911	2.2	29,4	1379	12,1
2 x 2.5	7 / 0.67	0.7	3.4	1.2	9,4	134	1.4	13,4	277	7,41
3 x 2.5	7 / 0.67	0.7	3.4		9,9	164	1.4	13,9	314	7,41
4 x 2.5	7 / 0.67	0.7	3.4	1.4	11,2	212	1.5	15,4	385	7,41
5 x 2.5	7 / 0.67	0.7	3.4		12,2	226	1.5	16,4	413	7,41
7 x 2.5	7 / 0.67	0.7	3.4	1.4	13,2	295	1.5	17,4	495	7,41
12 x 2.5	7 / 0.67	0.7	3.4		17,3	484	1.8	22,4	798	7,41
19 x 2.5	7 / 0.67	0.7	3.4	1.6	20,5	734	2.0	26,0	1124	7,41
24 x 2.5	7 / 0.67	0.7	3.4		24,3	937	2.4	30,6	1447	7,41
27 x 2.5	7 / 0.67	0.7	3.4	2.0	25,2	1057	2.4	31,5	1584	7,41
37 x 2.5	7 / 0.67	0.7	3.4		28,5	1419	2.4	34,8	2010	7,41

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