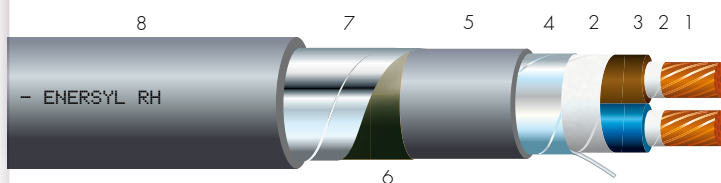


ENERSYL® RH CONTROL

Control cables



- 1 • Stranded bare copper core, class 2 as per IEC 60228.
- 2 • Optional separating tape.
- 3 • Insulation: PVC as per NF C 32-090 + 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: Hydrocarbon resistant PVC, type ST1 as per IEC 60502-1.
- 6 • (optional) Bedding: waxed crepe paper.
- 7 • (optional) Armour: double steel tape (FA) / galvanized steel braid (BG).
- 8 • Outer sheath: Hydrocarbon resistant PVC, type ST1 as per IEC 60502-1.

Reference

- (example) ENERSYL® RH EG FA CONTROL
19x1,5 mm²
RH: Hydrocarbon resistant
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

Markings

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

Approvals - standards

- IEC 60228 / NF C 32-090.
- IEC 60332-1.
- Inspired by standard NF M 87-202 for oil industry.

Standard products

- Sheath: grey.
- 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.

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 NT140404-01:

- Good resistance to acid.
- Good resistance to base.
- Excellent resistance to aliphatic hydrocarbons as per NF M 87-202.
- Excellent resistance to mineral oil in IRM 902.
- 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.

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 Devevy - F 42000 Saint-Etienne
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00
silisol@omerin.com

omerin
LES CABLES DE L'EXTREME

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.
® Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.

				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	35	1.0	9.1	124	57.5
3 x 0.34	7 / 0.25	0.6	1.9	0.6	5.5	41	1.0	9.4	134	57.5
4 x 0.34	7 / 0.25	0.6	1.9	0.6	6.0	50	1.0	9.9	149	57.5
5 x 0.34	7 / 0.25	0.6	1.9	0.6	6.5	51	1.0	10.5	159	57.5
7 x 0.34	7 / 0.25	0.6	1.9	0.6	7.1	66	1.0	11.1	182	57.5
12 x 0.34	7 / 0.25	0.6	1.9	0.8	9.8	116	1.1	14.0	274	57.5
19 x 0.34	7 / 0.25	0.6	1.9	1.0	11.8	179	1.2	16.2	371	57.5
24 x 0.34	7 / 0.25	0.6	1.9	1.1	13.9	227	1.2	18.4	453	57.5
27 x 0.34	7 / 0.25	0.6	1.9	1.1	14.2	248	1.2	18.7	478	57.5
37 x 0.34	7 / 0.25	0.6	1.9	1.2	16.0	329	1.3	20.7	594	57.5
2 x 0.5	7 / 0.30	0.6	2.1	0.6	5.6	42	1.0	9.5	137	36.0
3 x 0.5	7 / 0.30	0.6	2.1	0.6	5.9	50	1.0	9.8	149	36.0
4 x 0.5	7 / 0.30	0.6	2.1	0.6	6.5	61	1.0	10.5	169	36.0
5 x 0.5	7 / 0.30	0.6	2.1	0.6	7.1	63	1.0	11.1	178	36.0
7 x 0.5	7 / 0.30	0.6	2.1	0.8	8.1	89	1.0	12.1	218	36.0
12 x 0.5	7 / 0.30	0.6	2.1	0.8	10.6	144	1.1	14.8	313	36.0
19 x 0.5	7 / 0.30	0.6	2.1	1.0	12.8	223	1.2	17.2	429	36.0
24 x 0.5	7 / 0.30	0.6	2.1	1.1	15.1	283	1.2	19.6	526	36.0
27 x 0.5	7 / 0.30	0.6	2.1	1.2	15.6	317	1.3	20.3	577	36.0
37 x 0.5	7 / 0.30	0.6	2.1	1.2	17.4	414	1.3	22.1	699	36.0
2 x 0.75	7 / 0.37	0.6	2.3	0.6	6.0	51	1.0	9.9	151	24.5
3 x 0.75	7 / 0.37	0.6	2.3	0.6	6.4	62	1.0	10.4	168	24.5
4 x 0.75	7 / 0.37	0.6	2.3	0.6	6.9	75	1.0	10.9	190	24.5
5 x 0.75	7 / 0.37	0.6	2.3	0.8	8.0	85	1.0	12.0	213	24.5
7 x 0.75	7 / 0.37	0.6	2.3	0.8	8.7	110	1.0	12.7	248	24.5
12 x 0.75	7 / 0.37	0.6	2.3	1.0	11.9	191	1.2	16.3	384	24.5
19 x 0.75	7 / 0.37	0.6	2.3	1.1	14.0	286	1.2	18.5	513	24.5
24 x 0.75	7 / 0.37	0.6	2.3	1.2	16.5	362	1.3	21.2	635	24.5
27 x 0.75	7 / 0.37	0.6	2.3	1.2	16.8	398	1.3	21.5	676	24.5
37 x 0.75	7 / 0.37	0.6	2.3	1.2	18.9	527	1.3	23.6	835	24.5
2 x 1	7 / 0.43	0.6	2.5	0.6	6.4	60	1.0	10.4	167	18.1
3 x 1	7 / 0.43	0.6	2.5	0.6	6.8	73	1.0	10.8	185	18.1
4 x 1	7 / 0.43	0.6	2.5	0.8	7.8	97	1.0	11.8	223	18.1
5 x 1	7 / 0.43	0.6	2.5	0.8	8.6	101	1.0	12.6	237	18.1
7 x 1	7 / 0.43	0.6	2.5	0.8	9.3	133	1.1	13.5	284	18.1
12 x 1	7 / 0.43	0.6	2.5	1.0	12.7	229	1.2	17.1	434	18.1
19 x 1	7 / 0.43	0.6	2.5	1.1	15.0	345	1.2	19.5	586	18.1
24 x 1	7 / 0.43	0.6	2.5	1.2	17.8	441	1.3	22.5	733	18.1
27 x 1	7 / 0.43	0.6	2.5	1.2	18.2	486	1.3	22.9	783	18.1
37 x 1	7 / 0.43	0.6	2.5	1.3	20.5	649	1.4	25.4	992	18.1
2 x 1.5	7 / 0.52	0.6	2.8	0.6	7.0	77	1.0	11.0	191	12.1
3 x 1.5	7 / 0.52	0.6	2.8	0.8	7.8	102	1.0	11.8	227	12.1
4 x 1.5	7 / 0.52	0.6	2.8	0.8	8.5	125	1.0	12.5	260	12.1
5 x 1.5	7 / 0.52	0.6	2.8	0.8	9.4	132	1.1	13.6	284	12.1
7 x 1.5	7 / 0.52	0.6	2.8	0.8	10.3	177	1.1	14.5	342	12.1
12 x 1.5	7 / 0.52	0.6	2.8	1.1	14.1	308	1.2	18.6	537	12.1
19 x 1.5	7 / 0.52	0.6	2.8	1.2	16.7	465	1.3	21.4	741	12.1
24 x 1.5	7 / 0.52	0.6	2.8	1.3	19.8	593	1.3	24.5	914	12.1
27 x 1.5	7 / 0.52	0.6	2.8	1.3	20.2	655	1.4	25.1	993	12.1
37 x 1.5	7 / 0.52	0.6	2.8	1.3	22.6	867	1.4	27.5	1242	12.1
2 x 2.5	7 / 0.67	0.7	3.4	0.8	8.6	119	1.0	12.6	255	7.41
3 x 2.5	7 / 0.67	0.7	3.4	0.8	9.1	148	1.0	13.1	291	7.41
4 x 2.5	7 / 0.67	0.7	3.4	0.8	10.1	187	1.1	14.3	348	7.41
5 x 2.5	7 / 0.67	0.7	3.4	1.0	11.5	208	1.1	15.7	389	7.41
7 x 2.5	7 / 0.67	0.7	3.4	1.0	12.5	276	1.2	16.9	478	7.41
12 x 2.5	7 / 0.67	0.7	3.4	1.2	16.8	466	1.3	21.5	744	7.41
19 x 2.5	7 / 0.67	0.7	3.4	1.3	20.0	714	1.3	24.7	1038	7.41
24 x 2.5	7 / 0.67	0.7	3.4	1.3	23.4	892	1.4	28.3	1278	7.41
27 x 2.5	7 / 0.67	0.7	3.4	1.3	23.9	988	1.4	28.8	1382	7.41
37 x 2.5	7 / 0.67	0.7	3.4	1.4	27.0	1330	1.5	32.1	1785	7.41

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

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. © Registered trademark of the OMERIN Group. Drawings and photos are not contractual. Reproduction is prohibited without the prior agreement of OMERIN.