

	RV-K 1kV AENOR reg. N° 042/000962 Construction Products Regulation (EU) No 305/2011		ETP-41 Ed. 02/2026 Rev. 19
Industrial cables of rated voltage 0,6/1 kV. XLPE insulated and PVC sheathed cables.			

DESCRIPTION

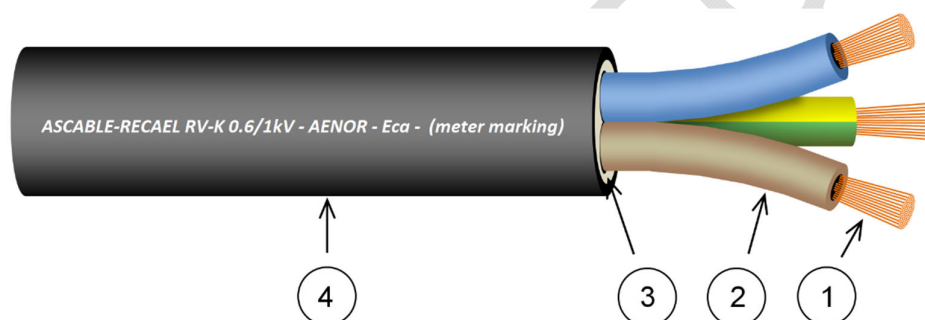
Electric power cables with cross linked polyethylene insulation and PVC outer sheath.

These cables are suitable for transport and distribution of electric power for fixed installations and for industrial use. These cables are suitable for indoor or outdoor installations and for air, buried or in conduit installations.

Construction based on UNE 21123-2 / IEC 60502-1 criteria.

CONSTRUCTION

1 - Conductor:	Flexible bare copper, class 5	a/EN 60228
2 - Insulation:	Cross linked polyethylene, type DIX-3	
	· Identification (colours)	a/HD 308
	- 1x: natural (uncoloured)	
	- up to 5c: blue, brown, black, grey, yellow/green	
	- 6c or more: black numbered with or without yellow/green	
	· Assembly of cores: concentric stranded	
3 - Filler:	Thermoplastic compound (optional)	
4 - Outer sheath:	PVC-based compound, type ST2	
	Usual colour: Black	a/RAL-9005



TECHNICAL SPECIFICATIONS

Rated voltage Vca (Uo/U):	0,6 / 1kV	
Max. voltage Vca (Um):	1,2 kV	
Rated voltage Vdc:	1,8 kV max. (Core / core, without grounding)	
Test voltage:	3.500 V Vac. / 6.500 Vdc.	
Temperature range:	-15°C a +90°C	
Min. service temperature:	-40 °C (fixed and protected installations)	
Weather conditions (**):	O.K.	a/UNE 211605
Maximum short-circuit temperature:	250°C (max. 5 s)	a/IEC 60724
Oil and fuel resistant:	O.K.	a/ICEA S-73-532
Water resistant (*):	AD7	a/IEC 60364-3
CPR classification (class)	Eca	a/EN 50575
UV resistant:	O.K.	a/UNE 21123-2
Flame retardant:	O.K.	a/EN 60332-1-2

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MINIMUM BENDING RADIUS

During installation the radius of curvature should never be below the following values:

Unarmoured cables	
Ø (*)	Minimum bending radius
Ø < 25	4 Ø
25 ≤ Ø ≤ 50	5 Ø
Ø > 50	6 Ø

(*) Ø = Outside cable diameter

DATA AND DIMENSIONS

Dimensions and weights are approximates, subject to small variations due to process. Other sizes are possible on request.

Formations up to 5 cores

Cross section mm²	Resistance Ω/km at 20 °C	Voltage Drop V/Axkm		Intensity maximum, A		Insulation thickness, mm	Sheath		Pulling force (***) max., N	Weight Kg/km
		Cos φ 0,8	Cos φ 1	In air	buried		thickness, mm	Ø outer, mm		
1x1,5	13,3	23,66	29,374	21	21	0,7	1,4	5,8	75	46
1x2,5	7,98	14,25	17,624	30	27	0,7	1,4	6,2	125	58
1x4	4,95	8,887	10,933	40	35	0,7	1,4	6,7	200	74
1x6	3,30	5,964	7,288	52	44	0,7	1,4	7,3	300	95
1x10	1,91	3,495	4,218	72	58	0,7	1,4	8,2	500	137
1x16	1,21	2,238	2,673	97	75	0,7	1,4	9,3	800	192
1x25	0,780	1,487	1,723	122	96	0,9	1,4	10,9	1.250	282
1x35	0,554	1,082	1,223	153	117	0,9	1,4	12,1	1.750	376
1x50	0,386	0,782	0,852	188	138	1,0	1,4	13,7	2.500	510
1x70	0,272	0,576	0,601	243	170	1,1	1,4	15,9	3.500	723
1x95	0,206	0,458	0,456	298	202	1,1	1,5	17,6	4.750	918
1x120	0,161	0,377	0,355	350	230	1,2	1,5	19,4	6.000	1.158
1x150	0,129	0,318	0,284	401	260	1,4	1,6	21,6	7.500	1.434
1x185	0,106	0,277	0,234	460	291	1,6	1,6	23,6	9.250	1.724
1x240	0,0801	0,23	0,177	545	336	1,7	1,7	27,3	12.000	2.270
1x300	0,0641	0,201	0,142	630	380	1,8	1,8	30,2	15.000	2.880
1x400 ⁽¹⁾	0,0486	---	---	716	464	2,0	2,0	35,5	20.000	3.805
1x500 ⁽¹⁾	0,0384	---	---	823	525	2,2	2,0	41,4	25.000	4.800
2x1,5	13,3	27,371	33,918	23	24	0,7	1,25	8,50	150	100
2x2,5	7,98	16,502	20,35	32	32	0,7	1,25	9,30	250	130
2x4	4,95	10,308	12,624	44	42	0,7	1,25	10,30	400	170
2x6	3,30	6,931	8,416	57	53	0,7	1,25	11,40	600	220
2x10	1,91	4,082	4,87	78	70	0,7	1,25	13,30	1.000	330
2x16	1,21	2,614	3,086	104	91	0,7	1,25	15,40	1.600	475
2x25	0,780	1,772	1,99	135	116	0,9	1,40	18,90	2.500	725
2x35	0,554	1,304	1,412	168	140	0,9	1,50	21,50	3.500	980
2x50	0,386	0,96	0,984	204	166	1,0	1,60	26,00	5.000	1.455
2x70	0,272	0,724	0,694	262	204	1,1	1,70	30,60	7.000	2.070
3G1,5	13,3	27,371	33,918	23	24	0,7	1,25	9,00	225	120
3G2,5	7,98	16,502	20,35	32	32	0,7	1,25	9,80	375	155
3G4	4,95	10,308	12,624	44	42	0,7	1,25	10,90	600	205

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Cross section mm ²	Resistance Ω/km at 20 °C	Voltage Drop V/Axkm		Intensity maximum, A		Insulation thickness, mm	Sheath		Pulling force (***) max., N	Weight Kg/km
		Cos φ 0,8	Cos φ 1	In air	buried		thickness, mm	Ø outer, mm		
3G6	3,30	6,931	8,416	57	53	0,7	1,25	12,10	900	275
3G10	1,91	4,082	4,87	78	70	0,7	1,25	14,20	1.500	420
3x16	1,21	2,201	2,673	91	75	0,7	1,40	16,70	2.400	615
3x25	0,780	1,457	1,723	115	96	0,9	1,40	20,20	3.750	930
3x35	0,554	1,054	1,223	143	117	0,9	1,50	23,00	5.250	1.270
3x50	0,386	0,757	0,852	174	138	1,0	1,60	27,70	7.500	1.860
3x70	0,272	0,555	0,601	223	170	1,1	1,70	32,70	10.500	2.660
3x95	0,206	0,436	0,456	271	202	1,1	1,80	36,00	14.250	3.355
3x120 ⁽¹⁾	0,161	0,356	0,355	301	230	1,2	1,9	40,1	18.000	4.070
3x150 ⁽¹⁾	0,129	0,3	0,284	344	260	1,4	2,3	45,2	22.500	5.082
3x185 ⁽¹⁾	0,106	0,26	0,234	391	291	1,6	2,4	49,8	27.750	6.257
3x240 ⁽¹⁾	0,0801	0,213	0,177	468	336	1,7	2,6	57,8	36.000	8.274
4G1,5	13,3	23,602	29,374	20	21	0,7	1,25	9,80	300	140
4G2,5	7,98	14,196	17,624	28	27	0,7	1,25	10,70	500	185
4G4	4,95	8,837	10,933	38	35	0,7	1,25	11,90	800	250
4G6	3,30	5,917	7,288	49	44	0,7	1,25	13,30	1.200	340
4G10	1,91	3,455	4,218	68	58	0,7	1,25	15,60	2.000	520
4x16	1,21	2,201	2,673	91	75	0,7	1,40	18,40	3.200	775
4x25	0,780	1,457	1,723	115	96	0,9	1,50	22,50	5.000	1.185
4x35	0,554	1,054	1,223	143	117	0,9	1,60	25,60	7.000	1.615
4x50	0,386	0,757	0,852	174	138	1,0	1,70	30,80	10.000	2.350
4x70	0,272	0,555	0,601	223	170	1,1	1,80	36,30	14.000	3.360
4x95 ⁽¹⁾	0,206	0,436	0,456	271	202	1,1	1,90	40,00	19.000	4.250
4x120 ⁽¹⁾	0,161	0,356	0,355	301	230	1,2	2,3	45,2	24.000	5.225
4x150 ⁽¹⁾	0,129	0,3	0,284	344	260	1,4	2,4	50,2	30.000	6.466
4x185 ⁽¹⁾	0,106	0,26	0,234	391	291	1,6	2,6	55,5	37.000	7.940
4x240 ⁽¹⁾	0,0801	0,213	0,177	468	336	1,7	2,8	64,4	48.000	10.485
5G1,5	13,3	23,602	29,374	20	21	0,7	1,25	10,60	375	160
5G2,5	7,98	14,196	17,624	28	27	0,7	1,25	11,70	625	220
5G4	4,95	8,837	10,933	38	35	0,7	1,25	13,00	1.000	300
5G6	3,30	5,917	7,288	49	44	0,7	1,25	14,50	1.500	405
5G10	1,91	3,455	4,218	68	58	0,7	1,40	17,40	2.500	640
5G16	1,21	2,201	2,673	91	75	0,7	1,40	20,20	4.000	930
5G25	0,780	1,457	1,723	115	96	0,9	1,50	24,70	6.250	1.425
5G35	0,554	1,054	1,223	143	117	0,9	1,60	28,20	8.750	1.960
5G50	0,386	0,757	0,852	174	138	1,0	1,80	34,00	12.500	2.845
5G95 ⁽¹⁾	0,206	0,436	0,456	271	202	1,1	1,90	44,30	23.750	5.010

⁽¹⁾ Classifieds CPR but excluded from the AENOR license.

Industrial cables of rated voltage 0,6/1 kV. XLPE insulated and PVC sheathed cables.

More than 5 cores

Cross section mm ²	Resistance Ω/km at 20 °C	Insulation thickness, mm	Sheath		Pulling force (***) max., N	Weight Kg/km
			thickness, mm	Ø outer, mm		
7x1,5	13,3	0,7	1,25	11,50	525	200
8x1,5	13,3	0,7	1,25	12,90	600	235
10x1,5	13,3	0,7	1,25	14,50	750	300
12x1,5	13,3	0,7	1,25	15,00	900	335
14x1,5	13,3	0,7	1,25	15,80	1.050	370
16x1,5	13,3	0,7	1,40	16,90	1.200	420
19x1,5	13,3	0,7	1,40	17,80	1.425	475
21x1,5	13,3	0,7	1,40	19,20	1.575	540
24x1,5	13,3	0,7	1,50	21,00	1.800	645
27x1,5	13,3	0,7	1,50	21,50	2.025	685
30x1,5	13,3	0,7	1,50	22,30	2.250	740
33x1,5	13,3	0,7	1,50	23,10	2.475	790
37x1,5	13,3	0,7	1,50	24,00	2.775	865
40x1,5	13,3	0,7	1,60	25,60	3.000	970
44x1,5	13,3	0,7	1,60	27,20	3.300	1.090
48x1,5	13,3	0,7	1,60	27,70	3.600	1.145
52x1,5	13,3	0,7	1,60	28,50	3.900	1.210
56x1,5	13,3	0,7	1,70	29,50	4.200	1.295
61x1,5	13,3	0,7	1,70	30,40	4.575	1.390
7x2,5	7,98	0,7	1,25	12,70	875	280
8x2,5	7,98	0,7	1,25	14,20	1.000	330
10x2,5	7,98	0,7	1,30	16,20	1.250	425
12x2,5	7,98	0,7	1,40	16,90	1.500	480
14x2,5	7,98	0,7	1,40	17,80	1.750	535
16x2,5	7,98	0,7	1,40	18,80	2.000	600
19x2,5	7,98	0,7	1,40	19,80	2.375	685
21x2,5	7,98	0,7	1,50	21,50	2.625	785
24x2,5	7,98	0,7	1,50	23,40	3.000	920
27x2,5	7,98	0,7	1,50	23,90	3.375	980
30x2,5	7,98	0,7	1,60	25,00	3.750	1.075
33x2,5	7,98	0,7	1,60	26,00	4.125	1.165
37x2,5	7,98	0,7	1,60	27,00	4.625	1.280
40x2,5	7,98	0,7	1,60	28,50	5.000	1.405
44x2,5	7,98	0,7	1,70	30,60	5.500	1.595
48x2,5	7,98	0,7	1,70	31,10	6.000	1.680
52x2,5	7,98	0,7	1,70	32,00	6.500	1.785
56x2,5	7,98	0,7	1,70	33,00	7.000	1.900
61x2,5	7,98	0,7	1,80	34,20	7.625	2.060
7x4	4,95	0,7	1,25	14,20	1.400	385
8x4	4,95	0,7	1,25	16,00	1.600	460
10x4	4,95	0,7	1,40	18,40	2.000	600
12x4	4,95	0,7	1,40	19,00	2.400	670

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REFERENCE CONDITIONS FOR THE CALCULATION OF INTENSITY

(Other conditions are possible, consult standards HD 60364-5-52 and IEC 60364-5-52)

According EN 60364-5-52 and IEC 60364-5-52

Maximum intensity to air in tray, temperature ambient 40 °C:

Installation type F	XLPE3	column 11 (1x triphasic)
Installation type E	XLPE2	column 12 (2x, 3G monophasic)
Installation type E	XLPE2	column 10b (3x, 4x, 4G, 5G triphasic)
Installation type E	XLPE2	column 12 with reduction factor according to point 1 table B.52.17 (> 5 cores)

Maximum intensity directly buried (method D2) or under conduit (method D1), thermal resistivity of soil de 2,5 K.m/W and ambient temperature on the ground of 25 °C:

Installation type D1/D2	XLPE2	2x, 3G monophasic
Installation type D1/D2	XLPE3	1x, 3x, 4x, 4G, 5G triphasic

VOLTAGE DROP:

Monophasic method	2x, 3G, > 5 cores
Triphasic method	1x, 3x, 4x, 4G, 5G

NOTES:

(*) **AD7: Immersion** Possibility of intermittent partial or total covering by water.
Localizations which may be flooded and/or where water may be at maximum 150 mm above the highest point of equipment, the lowest part of equipment being not more than 1 m below the water surface.

(**) Test conditions:

Energy radiation:	43 W/m ²
Number of cycles:	1
Enclosure temperature for phases 3 and 4 of the climate cycle: 55 °C	
Maximum black body temperature:	70 °C

(***) CALCULATION FOR PULLING FORCE

By means of a pulling head on the conductors or by means of a pulling sleeve with a friction connection between the pulling sleeve and the cable conductors, a maximum tensile load value of 50 N/mm² is allowed.

This maximum pulling force takes into account the permitted elongation of 0,2 % for the conductor.

It is possible to supply cables with other sections or combination of sections, but will not be covered by the AENOR license or CPR classified.