

0.6/1kV PE insulated aerial power cables with aluminium conductor

Standards: SFS 2200, HD 626 S1

Application

It is preferred to use of AER cables instead of uninsulated conductors at low voltage networks. AER cables are especially used at areas where the cost of underground networks is expensive and also for electrification of rural areas like villages.

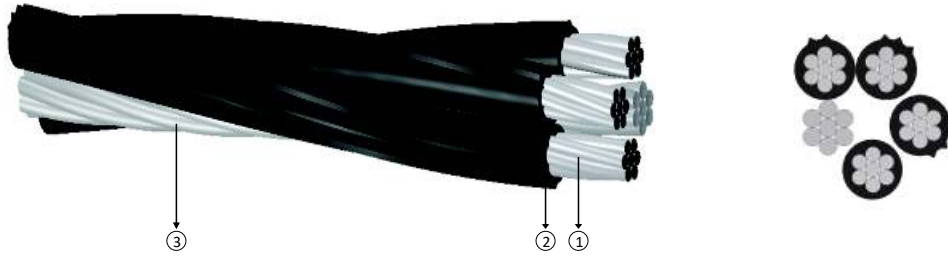
Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 0.6/1 kV

Construction

① Solid or stranded aluminium conductor ● PE or XLPE insulation ③ Messenger wire

Number Of Conductor Cross Section	INSULATED WIRES							MESSENGER WIRE			FINISHED CABLE	
	Conductor size	Number of wires	Diameter of conductors	Resistance of 20 °C	Current Carrying Capacity	Resistance of 20 °C	Current Carrying Capacity	Diameter of Messenger Wire	Minimum Tensile Strenght	Maximum Resistance of 20 °C	App.Max. Bundle Diameter	App. Net Weight
mm ²	mm ²	Adet	mm	ohm/km	A	mm ²	A	mm	kN	ohm/km	mm	kg/km
1x16+1x16+25	1x16	1	4.4	1.91	70	1x16	60	5.9	7.4	1.38	15	225
3x16+1x16+25	3x16	1	4.4	1.91	60	1x16	60	5.9	7.1	1.38	22	350
3x25+1x16+35	3x25	7	5.9	1.2	80	1x16	60	6.9	10.3	0.986	26	475
3x35+1x16+50	3x35	7	6.9	0.868	95	1x16	60	8x1	14.2	0.72	30	625
3x50+1x16+70	3x50	7	8.1	0.641	120	1x16	60	9.6	20.6	0.493	35	800
3x70+1x16+95	3x70	7	9.6	0.443	150	1x16	60	11.4	27.9	0.363	41	1100
4x16+1x16+25	4x16	1	4.4	1.91	60	1x16	60	5.9	7.4	1.38	25	410
4x25+1x16+35	4x25	7	5.9	1.2	80	1x16	60	6.9	10.3	0.986	30	610
4x35+1x16+50	4x35	7	6.9	0.868	95	1x16	60	8.1	14.2	0.72	34	810
4x50+1x16+70	4x50	7	8.1	0.641	120	1x16	60	9.63	20.6	0.493	40	1060
4x70+1x16+95	4x70	7	9.3	0.443	150	1x16	60	11.4	27.9	0.363	47	1420



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mm ²	mm ²	Adet	mm	ohm/km	A	mm ²	A	mm	kN	ohm/km	mm	kg/km
1x16+25	1x16	1	4.4	1.91	75	-	-	5.9	7.4	1.38	15	140
1x25+35	1x25	7	5.9	1.2	10	-	-	6.9	10.3	0.986	17	200
1x35+50	1x35	7	6.9	0.868	125	-	-	8.1	14.2	0.72	20	275
3x16+25	3x16	1	4.4	1.91	70	-	-	5.9	7.4	1.38	22	275
3x25+35	3x25	7	5.9	1.2	90	-	-	6.9	10.3	0.986	26	400
3x35+50	3x35	7	6.9	0.868	115	-	-	8.1	14.2	0.72	30	575
3x50+70	3x50	7	8.1	0.641	140	-	-	9.6	20.6	0.493	35	750
3x70+95	3x70	7	9.6	0.443	180	-	-	11.4	27.9	0.363	41	1050
3x120+95	3x120	19	12.8	0.253	250	-	-	11.4	27.9	0.363	47	1550
4x16+25	4x16	1	4.4	1.91	70	-	-	5.9	7.4	1.38	24	375
4x25+35	4x25	7	5.9	1.2	90	-	-	6.9	10.3	0.986	28	500
4x35+50	4x35	7	6.9	0.868	115	-	-	8.1	14.2	0.72	32	680
4x50+70	4x50	7	8.1	0.641	140	-	-	9.6	20.6	0.493	38	900
4x70+95	4x70	7	9.6	0.443	180	-	-	11.4	27.9	0.363	45	1350

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