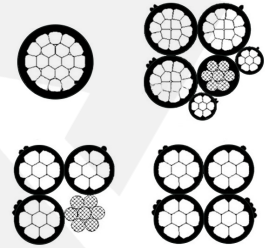
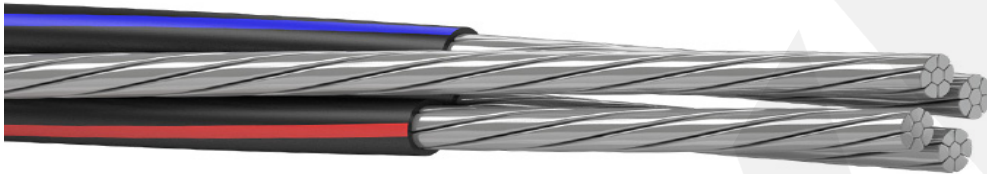


## AERIAL BUNDLED CABLES (ABC) Acc. to SFS 2200



### TECHNICAL DATA

- Max Operating Temperature: 90°C
- Max. short Circuit Temperature: 250°C (max. 5 sec.)
- Rated voltage: 0.6/1kV
- Cable Code: AER

### 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.

### CONSTRUCTION

- Solid or Stranded Aluminium Conductor
- PE or XLPE Insulation
- Messenger wire

NUMBER OF CONDUCTOR CROSS SECTION	INSULATED WIRES							MESSENGER WIRE			FINISHED CABLE	
	CONDUCTOR SIZE	NUMBER OF WIRES	DIAMETER OF CONDUCTOR	RESISTANCE OF 20°C	CURRENT CARRYING CAPACITY	NUMBER OF WIRES	CURRENT CARRYING CAPACITY	DIAMETER OF MESSENGER WIRE	MIN.TENSILE STRENGTH	MAX. RESISTANCE OF 20°C	APP. MAX. BUNDLE DIAMETER	APP. NET. WEIGHT
mm <sup>2</sup>	mm <sup>2</sup>		mm	Ω/km	A	mm <sup>2</sup>	A	mm	kN	Ω/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	8.1	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

NUMBER OF CONDUCTOR CROSS SECTION	INSULATED WIRES							MESSENGER WIRE			FINISHED CABLE	
	CONDUCTOR SIZE	NUMBER OF WIRES	DIAMETER OF CONDUCTOR	RESISTANCE OF 20°C	CURRENT CARRYING CAPACITY	NUMBER OF WIRES	CURRENT CARRYING CAPACITY	DIAMETER OF MESSENGER WIRE	MIN.TENSILE STRENGTH	MAX. RESISTANCE OF 20°C	APP. MAX. BUNDLE DIAMETER	APP. NET. WEIGHT
mm <sup>2</sup>	mm <sup>2</sup>		mm	Ω/km	A	mm <sup>2</sup>	A	mm	kN	Ω/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

NUMBER OF CONDUCTOR CROSS SECTION	INSULATED WIRES							MESSENGER WIRE			FINISHED CABLE	
	CONDUCTOR SIZE	NUMBER OF WIRES	DIAMETER OF CONDUCTOR	RESISTANCE OF 20°C	CURRENT CARRYING CAPACITY	NUMBER OF WIRES	CURRENT CARRYING CAPACITY	DIAMETER OF MESSENGER WIRE	MIN.TENSILE STRENGTH	MAX. RESISTANCE OF 20°C	APP MAX. BUNDLE DIAMETER	APP. NET. WEIGHT
			mm	Ω/km	A	mm <sup>2</sup>	A	mm	kN	Ω/km	mm	kg/km
mm <sup>2</sup>	mm <sup>2</sup>											
2x16	2x16	7	4.6	1.91	93	-	-	-	-	-	15	132
2x25	2x25	7	5.9	1.20	122	-	-	-	-	-	18,5	200
2x35	2x35	7	6.9	0.868	129	-	-	-	-	-	22,0	280
2x50	2x50	7	8.1	0.641	158	-	-	-	-	-	24,0	370
4x16	4x16	7	4.6	1.91	83	-	-	-	-	-	18,0	265
4x25	4x25	7	5.9	1.20	111	-	-	-	-	-	22,0	400
4x35	4x35	7	6.9	0.868	131	-	-	-	-	-	26,0	550
3x25+54.6	3x25	7	5.9	1.20	112	-	-	9.6	16.0	0.63	30,0	470
3x25+1x16+54.6	3x25	7	5.9	1.20	112	1x16	60	9.6	16.0	0.63	30,0	570
3x25+2x16+54.6	3x25	7	5.9	1.20	112	2x16	-	9.6	16.0	0.63	30,0	640
3x35+54.6	3x35	7	6.9	0.86	138	-	-	9.6	16.0	0.63	33,0	580
3x35+1x16+54.6	3x35	7	6.9	0.868	138	1x16	60	9.6	16.0	0.63	33,0	690
3x35+2x16+54.6	3x35	7	6.9	0.868	138	2x16	-	9.6	16.0	0.63	33,0	750
3x50+54.6	3x50	7	8.1	0.641	168	-	-	9.6	16.0	0.63	36,0	720
3x50+1x16+54.6	3x50	7	8.1	0.641	168	1x16	60	9.6	16.0	0.63	36,0	820
3x50+2x16+54.6	3x50	7	8.1	0.641	168	2x16	-	9.6	16.0	0.63	36,0	890
3x70+54.6	3x70	12	9.7	0.443	213	-	-	9.6	16.0	0.63	38,0	930
3x70+1x16+54.6	3x70	12	9.7	0.443	213	1x16	60	9.6	16.0	0.63	38,0	1030
3x70+2x16+54.6	3x70	12	9.7	0.443	213	2x16	-	9.6	16.0	0.63	38,0	1100
3x70+1x25+54.6	3x70	12	9.7	0.443	213	1x25	-	9.6	16.0	0.63	40,0	1070
3x70+2x25+54.6	3x70	12	9.7	0.443	213	2x25	-	9.6	16.0	0.63	40,0	1170
3x70+70	3x70	12	9.7	0.443	213	-	-	10.2	20.6	0.50	41,0	970
3x70+1x16+70	3x70	12	9.7	0.443	213	1x16	60	10.2	20.6	0.50	41,0	1080
3x70+2x16+70	3x70	12	9.7	0.443	213	2x16	-	10.2	20.6	0.50	41,0	1150
3x95+70	3x95	19	11.5	0.320	258	-	-	10.2	20.6	0.50	44,0	1200
3x95+1x16+70	3x95	19	11.5	0.320	258	1x16	60	10.2	20.6	0.50	44,0	1300
3x95+2x16+70	3x95	19	11.5	0.320	258	2x16	-	10.2	20.6	0.50	44,0	1380
3x120+70	3x120	19	12.8	0.253	300	-	-	10.2	20.6	0.50	46,0	1430

NUMBER OF CONDUCTOR CROSS SECTION	INSULATED WIRES							MESSENGER WIRE			FINISHED CABLE	
	CONDUCTOR SIZE	NUMBER OF WIRES	DIAMETER OF CONDUCTOR	RESISTANCE OF 20°C	CURRENT CARRYING CAPACITY	NUMBER OF WIRES	CURRENT CARRYING CAPACITY	DIAMETER OF MESSENGER WIRE	MIN.TENSILE STRENGTH	MAX. RESISTANCE OF 20°C	APP MAX. BUNDLE DIAMETER	APP. NET. WEIGHT
			mm	Ω/km	A	mm <sup>2</sup>	A	mm	kN	Ω/km	mm	kg/km
mm <sup>2</sup>	mm <sup>2</sup>											
3x120+2x16+70	3x120	19	12.8	0.253	300	2x16	-	10.2	20.6	0.50	46	1600
3x150+70	3x150	19	14.5	0.206	344	-	-	10.2	20.6	0.50	48	1680
3x150+1x16+70	3x150	19	14.5	0.206	344	1x16	60	10.2	20.6	0.50	48	1780
3x150+2x16+70	3x150	19	14.5	0.206	344	2x16	-	10.2	20.6	0.50	48	1850
3x120+95	3x120	19	12.8	0.253	300	-	-	12.9	27.9	0.343	47	1500
3x120+1x16+95	3x120	19	12.8	0.253	300	1x16	60	12.9	27.9	0.343	47	1620
3x120+2x16+95	3x120	19	12.8	0.253	300	2x16	-	12.9	27.9	0.343	47	1680
3x150+95	3x150	19	14.5	0.206	344	-	-	12.9	27.9	0.343	49	1740
3x150+1x16+95	3x150	19	14.5	0.206	344	1x16	60	12.9	27.9	0.343	49	1880
3x150+2x16+95	3x150	19	14.5	0.206	344	2x16	-	12.9	27.9	0.343	49	1940