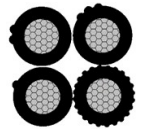


LV XLPE Aerial Bundled Cables 2, 3 & 4 Core Aluminium

0.6/1kV XLPE (X-90) insulated, aerial bundled cables to AS/NZS 3560.1



Physical Data

Product Code	Nominal Conductor Area mm ²	Nominal Conductor Diameter mm	Average Insulation Thickness mm	Nominal Diameter over Insulation mm	Nominal Diameter over Laid-up Cores mm	Approx. mass kg/100m
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2 Core

2AX016ALVAB	16	4.8	1.3	7.4	14.8	134
2AX025ALVAB	25	5.9	1.3	8.5	17.0	195
2AX035ALVAB	35	6.9	1.3	9.5	19.0	265
2AX050ALVAB	50	8.4	1.5	11.4	22.8	350
2AX095ALVAB	95	11.5	1.7	14.9	29.8	650

3 Core

3AX025ALVAB	25	5.9	1.3	8.5	18.3	290
3AX035ALVAB	35	6.9	1.3	9.5	20.5	390
3AX050ALVAB	50	8.4	1.5	11.4	24.6	570

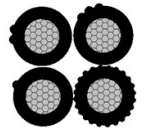
4 Core

4AX016ALVAB	16	4.8	1.3	7.4	19.1	267
4AX025ALVAB	25	5.9	1.3	8.5	20.5	385
4AX035ALVAB	35	6.9	1.3	9.5	22.9	510
4AX050ALVAB	50	8.4	1.5	11.4	27.5	670
4AX070ALVAB	70	9.9	1.5	12.9	31.2	980
4AX095ALVAB	95	11.5	1.7	14.9	36.0	1280
4AX120ALVAB	120	13.0	1.7	16.4	39.6	1650
4AX150ALVAB	150	14.6	1.7	18.0	43.5	2020



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Electrical properties

Nominal Conductor Area mm ²	DC resist. at 20°C Ω/km	AC resist. at 50Hz 85°C Ω/km	Positive sequence reactance at 50Hz Ω/km	Voltage drop at 50Hz 80°C mV/A.m	Continuous current carrying capacity (A)			Fault current rating kA for 1S	Min. breaking load of cable kN	Rec. tension	
					still air	1m/s wind	2m/s wind			Highest everyday tension kN	Max. working tension kN

2 Core

16	1.91	2.37	0.106	4.75	49	70	91	1.3	4.4	0.79	1.23
25	1.20	1.48	0.102	2.98	65	107	122	2.3	7.0	1.26	1.96
35	0.868	1.07	0.0982	2.15	81	128	147	3.2	9.8	1.76	2.74
50	0.641	0.795	0.0924	1.61	95	152	183	4.0	14.0	2.52	3.92
95	0.320	0.397	0.0868	0.813	142	234	278	8.4	26.6	4.79	7.45

3 Core

25	1.20	1.48	0.102	2.98	60	100	118	2.3	10.5	1.89	2.94
35	0.868	1.07	0.0982	2.15	78	122	136	3.2	14.7	2.65	4.12
50	0.641	0.795	0.0924	1.62	89	142	167	4.0	21.0	3.78	5.88

4 Core

16	1.91	2.36	0.106	4.11	44	74	86	1.5	8.8	1.58	2.46
25	1.20	1.48	0.102	2.58	60	100	118	2.3	14.0	2.52	3.92
35	0.868	1.07	0.0982	1.86	78	122	136	3.2	19.6	3.53	5.49
50	0.641	0.795	0.0924	1.38	89	142	167	4.0	28.0	5.00	7.84
70	0.443	0.551	0.0893	0.965	110	175	205	6.6	39.2	7.10	11.0
95	0.320	0.397	0.0868	0.705	138	218	258	8.5	53.2	9.60	14.9
120	0.253	0.315	0.0844	0.565	157	255	305	10.7	67.2	12.1	18.8
150	0.206	0.257	0.0844	0.469	182	284	350	12.8	84.0	15.1	23.5

Note:

- Voltage drops are single phase for 2 & 3 core cables and three-phase for 4 core cables.
- Continuous current ratings are based on an ambient temperature at 40°C, maximum conductor temperature at 80°C and solar radiation intensity of 1000W/mm².
- Rating for 2 & 3 core cables are based on all cores fully loaded. Ratings for 4 core cables are based on a lightly loaded neutral.
- Fault current ratings are based on initial and final conductor temperatures of 80°C and 210°C respectively.