

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

Hard drawn copper, 0.6/1kV XLPE (X-90) insulated, aerial bundled cables to AS/NZS 3560.2



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

2AX006HLVAB	6	3.1	1.3	5.7	11.4	150
2AX010HLVAB	10	4.1	1.3	6.7	13.4	240
2AX016HLVAB	16	5.1	1.3	7.7	15.4	355

3 Core

3AX006HLVAB	6	3.1	1.3	5.7	12.3	230
3AX010HLVAB	10	4.1	1.3	6.7	14.4	355
3AX016HLVAB	16	5.1	1.3	7.7	16.6	530

4 Core

4AX006HLVAB	6	3.1	1.3	5.7	13.8	305
4AX010HLVAB	10	4.1	1.3	6.7	16.2	470
4AX016HLVAB	16	5.1	1.3	7.5	17.3	685



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Electrical properties

Nominal Conductor Area mm ²	DC resist. at 20°C Ω/km	AC resist. at 50Hz 80°C Ω/km	Inductive 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

6	3.17	3.15	0.12	7.78	38	58	68	0.7	4.6	0.85	1.30
10	1.88	1.88	0.097	4.63	50	81	93	1.3	7.82	1.43	2.20
16	1.18	1.17	0.096	2.93	65	104	124	2.1	11.7	2.15	3.35

3 Core

6	3.17	3.15	0.12	7.78	33	56	65	0.7	7.00	1.28	1.98
10	1.88	1.88	0.097	4.63	46	75	87	1.3	11.7	2.15	3.30
16	1.18	1.17	0.096	2.93	60	98	114	2.1	17.5	3.22	4.99

4 Core

6	3.17	3.88	0.12	6.71	33	56	65	0.7	9.30	1.65	2.62
10	1.88	2.32	0.12	4.02	46	75	87	1.3	15.6	2.80	4.37
16	1.18	1.41	0.10	2.53	60	98	114	2.1	23.5	4.24	6.65

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.