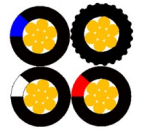


# LV PVC HD Copper Twisted Aerial 3 & 4 Core

Hard drawn copper, 0.6/1kV PVC insulated twisted aerial cables to AS/NZS 5000.1



## Physical Data

Product Code	Nominal Conductor Area mm <sup>2</sup>	Nominal Conductor Diameter mm	Average Insulation Thickness mm	Nominal Diameter Over Insulation	Approx. mass kg/100m
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### 3 Core

3AP006HLVAB	6	3.1	1.0	5.3	233
3AP010HLVAB	10	4.1	1.0	6.3	372
3AP016HLVAB	16	5.1	1.0	7.3	558
3AP025HLVAB	25	6.8	1.2	9.4	915

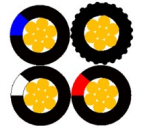
### 4 Core

4AP006HLVAB	6	3.1	1.0	5.3	319
4AP010HLVAB	10	4.1	1.0	6.3	495
4AP016HLVAB	16	5.1	1.0	7.3	717
4AP025HLVAB	25	6.8	1.2	9.4	1218



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## Electrical properties

Nominal Conductor Area mm <sup>2</sup>	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 75°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

### 3 Core

6	3.17	3.82	0.097	7.75	28	50	58	0.6	7.01	1.27	1.96
10	1.88	2.27	0.091	4.54	38	68	78	1.0	11.8	2.13	3.30
16	1.18	1.42	0.086	2.85	49	88	104	1.7	17.8	3.20	4.99
25	0.749	0.905	0.082	1.81	65	118	138	2.7	31.2	5.60	8.75

### 4 Core

6	3.17	3.82	0.11	6.63	28	50	58	0.6	9.30	1.69	2.60
10	1.88	2.27	0.10	3.95	38	68	78	1.0	15.7	2.80	4.40
16	1.18	1.42	0.094	2.47	49	88	104	1.7	23.7	4.20	6.65
25	0.749	0.905	0.091	1.56	65	118	138	2.7	41.6	7.50	11.6

Note:

Reactance and voltage drop are based on three cables laid in flat formation spaced 0.46m apart. The values can also be applied to single-phase circuits or 3-phase circuits with cables in trefoil formation. For single-phase circuits the voltage drop values should be multiplied by 1.155.

Continuous current ratings are based on an ambient temperature of 40°C, maximum conductor temperature of 75°C and solar radiation intensity of 1000W/m<sup>2</sup>. Fault current ratings are based on initial and final conductor temperatures of 75°C and 100°C respectively.