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

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

Physical data

Nominal conductor area	Number and nominal diameter of wires	Nominal conductor diameter	Average insulation thickness	Nominal diameter over insulation	Nominal diameter over laid-up cores	Approximate mass
mm^2	mm	mm	mm		mm	kg/km
2 Core						
6	7/1.04	3.1	1.3	5.7	11.4	151
10	7/1.35	4.1	1.3	6.7	13.4	235
16	7/1.70	5.1	1.3	7.7	15.4	352
3 Core						
6	7/1.04	3.1	1.3	5.7	12.3	226
10	7/1.35	4.1	1.3	6.7	14.4	352
16	7/1.70	5.1	1.3	7.7	16.6	528
4 Core						
6	7/1.04	3.1	1.3	5.7	13.8	301
10	7/1.35	4.1	1.3	6.7	16.2	470
16	7/1.70	5.1	1.3	7.7	18.6	704

Electrical Properties

Nominal conductor area	DC resist at 20℃	AC resist at 50Hz 80℃	Inductive reactance at 50Hz	Voltage drop at 50Hz 80℃	Continuous current carrying capacity. A			Fault current rating	Minimum bending radius (installed)		Min. breaking load of cable	Rec. tension		Modulus of elasticity of conductor	Coeff. of linear expansion
												Highest everyday tension	Max. working tension		
mm^2	Ω/km	Ω/km	Ω/km	mV/A.m	still air	1m/s wind	2m/s wind	kA for 1S	Core	Cable	kN	kN	kN	GPa	x10 -6/℃
2 Core															
6	3.17	3.15	0.12	7.78	38	58	68	0.7	25	75	4.60	0.85	1.30	112	17
10	1.88	1.88	0.097	4.63	50	81	93	1.3	25	85	7.82	1.43	2.20	112	17
16	1.18	1.17	0.096	2.93	65	104	124	2.1	30	90	11.7	2.15	3.35	112	17
3 Core															
6	3.17	3.88	0.12	7.78	33	56	65	0.7	25	80	7.00	1.28	1.98	112	17
10	1.88	2.32	0.097	4.63	46	75	87	1.3	25	95	11.7	2.15	3.30	112	17
16	1.18	1.41	0.096	2.93	60	98	114	2.1	30	105	17.5	3.22	4.99	112	17
4 Core															
6	3.17	3.88	0.12	6.71	33	56	65	0.7	25	90	9.30	1.65	2.62	112	17
10	1.88	2.32	0.12	4.02	46	75	87	1.3	25	105	15.6	2.80	4.37	112	17
16	1.18	1.41	0.10	2.53	60	98	114	2.1	30	115	23.5	4.24	6.65	112	17

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℃
- maximum conductor temperature of 80℃ and solar radiation intensity of 1000W/mm2. Rating for 2&3core 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℃ 210℃ respectively.