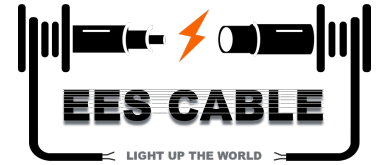
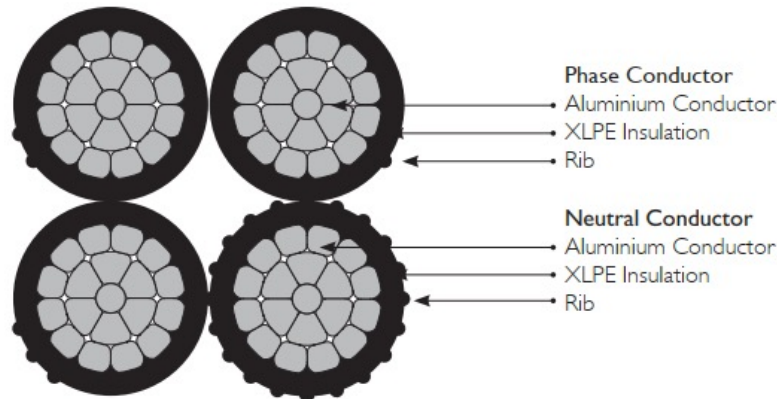


AS/NZS 3560.I 0.6/I (1.2) kV Aerial Bundled Cables Low Voltage(ABC LV)



AS/NZS 3560.I 0.6/I (1.2) kV



DESCRIPTION

The aerial bundled cables designed for overhead distribution lines have all conductors made of aluminium 1350 and are insulated with XLPE. Phase and neutral cores are laid up in a bundle with a left hand lay. Cables are rated at 0.6/1(1.2) kV and conform to AS/NZS 3560.I.

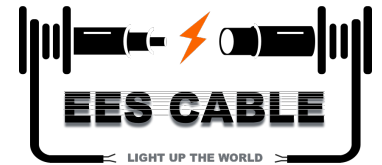
The main advantage of aerial bundled cables include :

1. Ease of erection and stringing
2. Practically no tree - trimming required
3. Less maintenance

CONSTRUCTION

- 1 Conductor (For both phase and neutral) :
The conductors shall be of aluminium 1350 wires and are compacted circular stranded.
- 2 Insulation :
The conductors shall be extruded with Cross-linked Polyethylene (XLPE) material as insulation. Each phase core is marked with numerals and letters 1 ONE, 2 TWO or 3 THREE and with one rib, two ribs or three ribs to denote the phases. The neutral core carries equally spaced ribs right round the circumference.
- 3 Assembly :
The cores shall be laid up with a left hand (S) lay.

AS/NZS 3560.I 0.6/I (1.2) kV Aerial Bundled Cables Low Voltage(ABC LV)



AS/NZS 3560.I

0.6/I (1.2) kV

Phase conductor

Nominal cross-sectional area	mm ²	16	25	35	50	95	25	35	50
Number of cores		1	1	1	1	1	2	2	2
Minimum number of wires		6	6	6	6	15	6	6	6
Nominal insulation thickness	mm	1.3	1.3	1.3	1.5	1.7	1.3	1.3	1.5
Diameter of insulated core	mm	7.5	8.8	9.8	11.4	15.3	8.8	9.8	11.4
Max. dc resistance at 20°C	ohm/km	1.91	1.20	0.868	0.641	0.320	1.20	0.868	0.641
Current rating for typical Australian installation conditions Conductor temperature = 80°C	A	78	105	125	150	230	97	120	140

Neutral conductor

Nominal cross-sectional area	mm ²	16	25	35	50	95	25	35	50
Minimum number of wires		6	6	6	6	15	6	6	6
Nominal insulation thickness	mm	1.3	1.3	1.3	1.5	1.7	1.3	1.3	1.5
Diameter of insulated core	mm	7.5	8.8	9.8	11.4	15.3	8.8	9.8	11.4
Max. dc resistance at 20°C	ohm/km	1.91	1.20	0.868	0.641	0.320	1.20	0.868	0.641

Completed cable

Minimum breaking load	kN	4.4	7.0	9.8	14.0	26.6	10.5	14.7	21.0
Approx. overall diameter	mm	15.0	17.6	19.6	22.8	30.6	19.0	21.1	24.6
Approx. weight of cable	kg/km	140	210	270	370	680	310	410	550
Packing length	m/drum	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000

Phase conductor

Nominal cross-sectional area	mm ²	16	25	35	50	70	95	120	150
Number of cores		3	3	3	3	3	3	3	3
Minimum number of wires		6	6	6	6	12	15	15	15
Nominal insulation thickness	mm	1.3	1.3	1.3	1.5	1.5	1.7	1.7	1.7
Diameter of insulated core	mm	7.5	8.8	9.8	11.4	13.2	15.3	16.8	18.2
Max. dc resistance at 20°C	ohm/km	1.91	1.20	0.868	0.641	0.443	0.320	0.253	0.206
Current rating for typical Australian installation conditions Conductor temperature = 80°C	A	74	97	120	140	175	215	250	280

Neutral conductor

Nominal cross-sectional area	mm ²	16	25	35	50	70	95	120	150
Minimum number of wires		6	6	6	6	12	15	15	15
Nominal insulation thickness	mm	1.3	1.3	1.3	1.5	1.5	1.7	1.7	1.7
Diameter of insulated core	mm	7.5	8.8	9.8	11.4	13.2	15.3	16.8	18.2
Max. dc resistance at 20°C	ohm/km	1.91	1.20	0.868	0.641	0.443	0.320	0.253	0.206

Completed cable

Minimum breaking load	kN	8.8	14.0	19.6	28.0	39.2	53.2	67.2	84.0
Approx. overall diameter	mm	18.1	21.2	23.7	27.5	31.9	36.9	40.6	43.9
Approx. weight of cable	kg/km	290	410	550	740	1,000	1,370	1,690	2,020
Packing length	m/drum	1,000	1,000	1,000	1,000	1,000	500	500	500