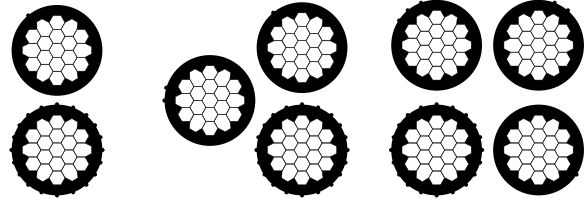


LOW VOLTAGE AERIAL BUNDLED CABLE

0.6/1 kV X-90 XLPE INSULATED, COMPACTED ALUMINIUM CONDUCTORS



Two-core cable

Three-core cable

Four-core cable

Application

For aerial reticulating to residential, rural and uncleared areas where reliability, safety and low installation costs are required.

Other benefits include: Reduction of bushfire hazards and frequency of tree lopping.

Standard

AS/NZS 3560.1

Approvals

Approved by all major power Utilities and Industrial customers in Australia.

Temperature range

Minimum installation temperature: 0 °C
 Maximum operating temperature: +80 °C
 Minimum operating temperature: -25 °C

Minimum bending radius of circumscribed diameter

Installed cables:	6D ≤ 50 mm ²
	9D > 50 mm ²
	4D Single Core
During installation:	9D ≥ 50 mm ²
	14D < 50 mm ²
	6D Single Core

Flexibility

Semi-rigid

Resistance to

Chemical exposure: Occasional
 Mechanical impact: Light
 Solar radiation and
 Weather exposure: Good

Cable design

Conductor:
 Hard Drawn Compacted Aluminium

Insulation:
 X-90 XLPE
 Colours: Black, Fully Ribbed Neutral, Single,
 Double and Triple Ribbed Phase Cores

Installation conditions

In free air
 Overhead aerial

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LOW VOLTAGE AERIAL BUNDLED CABLE

Physical characteristics

0.6/1 kV X-90 XLPE INSULATED, COMPACTED ALUMINIUM CONDUCTORS													
Product code	Conductor		Core diameter		Nominal ins. thick mm	Cable diameter		Min. installed bending radius		Cable mass Approx kg/100 m	Cal. min. breaking load kN	Final modulus of elasticity GPa	Coeff of linear expansion /°C x 10 ⁻⁶
	Nominal mm ²	Nominal diam. mm	Min. mm	Max. mm		Min. mm	Max. mm	Core mm	Cable mm				
2 core													
252CLOBAC	25	6.1	8.6	9.2	1.3	17.1	17.8	40	110	20	7.0	59	23
352CLOBAC	35	7.1	9.6	10.3	1.3	19.2	20.1	40	125	26	9.8	59	23
502CLOBAC	50	8.1	11.0	11.9	1.5	22.0	23.2	50	145	35	14.0	59	23
952CLOBAC	95	11.5	14.7	15.9	1.7	29.4	31.1	70	285	66	26.6	56	23
3 core													
253CLOBAC	25	6.1	8.6	9.2	1.3	18.4	19.2	40	120	30	10.5	59	23
353CLOBAC	35	7.1	9.6	10.3	1.3	20.7	21.6	40	135	39	14.7	59	23
503CLOBAC	50	8.1	11.0	11.9	1.5	23.7	25.0	50	155	53	21.0	59	23
4 core													
254CLOBAC	25	6.1	8.6	9.2	1.3	20.6	21.5	40	135	40	14.0	59	23
354CLOBAC	35	7.1	9.6	10.3	1.3	23.2	24.2	40	150	52	19.6	59	23
504CLOBAC	50	8.1	11.0	11.9	1.5	26.6	28.0	50	160	71	28.0	59	23
704CLOBAC	70	9.8	12.6	13.6	1.5	30.4	31.5	60	285	96	39.2	56	23
954CLOBAC	95	11.5	14.7	15.9	1.7	35.5	37.5	70	345	131	53.2	56	23
1204CLOBAC	120	13.0	16.2	17.5	1.7	39.1	41.2	70	380	158	67.2	56	23
1504CLOBAC	150	14.3	17.5	18.5	1.7	42.2	44.7	80	410	192	84.0	56	23

Electrical characteristics

0.6/1 kV X-90 XLPE INSULATED, COMPACTED ALUMINIUM CONDUCTORS.								
Product code	Conductor Nominal area mm ²	Current rating (a) A	Max DC resistance @ 20 °C Ω/km	Max AC resistance @ 80 °C Ω/km	Equivalent star reactance Ω/km	Voltage drop mV/Am	Capacitance pF/km	One second fault rating three phase symmetrical kA
Single phase								
252CLOBAC	25	105	1.20	1.49	0.102	2.99	402	1.8
352CLOBAC	35	125	0.868	1.08	0.0982	2.17	460	2.5
502CLOBAC	50	150	0.641	0.796	0.0924	1.60	464	3.6
952CLOBAC	95	230	0.320	0.398	0.0868	0.815	566	6.8
Two phase								
253CLOBAC	25	97	1.20	1.49	0.102	2.99	402	1.8
353CLOBAC	35	120	0.868	1.08	0.0982	2.17	460	2.5
503CLOBAC	50	140	0.641	0.796	0.0924	1.60	464	3.6
Three phase								
254CLOBAC	25	97	1.20	1.49	0.102	2.59	402	1.8
354CLOBAC	35	120	0.868	1.08	0.0982	1.88	460	2.5
504CLOBAC	50	140	0.641	0.796	0.0924	1.39	464	3.6
704CLOBAC	70	175	0.443	0.551	0.0893	0.967	553	5.0
954CLOBAC	95	215	0.320	0.398	0.0868	0.706	566	6.8
1204CLOBAC	120	250	0.253	0.315	0.0844	0.565	631	8.5
1504CLOBAC	150	280	0.206	0.257	0.0844	0.469	688	10.7

(a) Based on 40 °C ambient air temperature, and a maximum conductor temperature of 80 °C, 1 m/s wind and exposure to direct sunlight having an intensity of 1000 W/m². Refer to AS/NZS 3560.1

(b) Fault current ratings are based on initial and final conductor temperatures of 80 °C and 160 °C respectively.

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