



## Contact Us:

E-mail: [info@qingzhou-cable.com](mailto:info@qingzhou-cable.com)

Phone/Whatsapp/WeChat: +86 18625503172

[www.qingzhou-cable.com](http://www.qingzhou-cable.com)

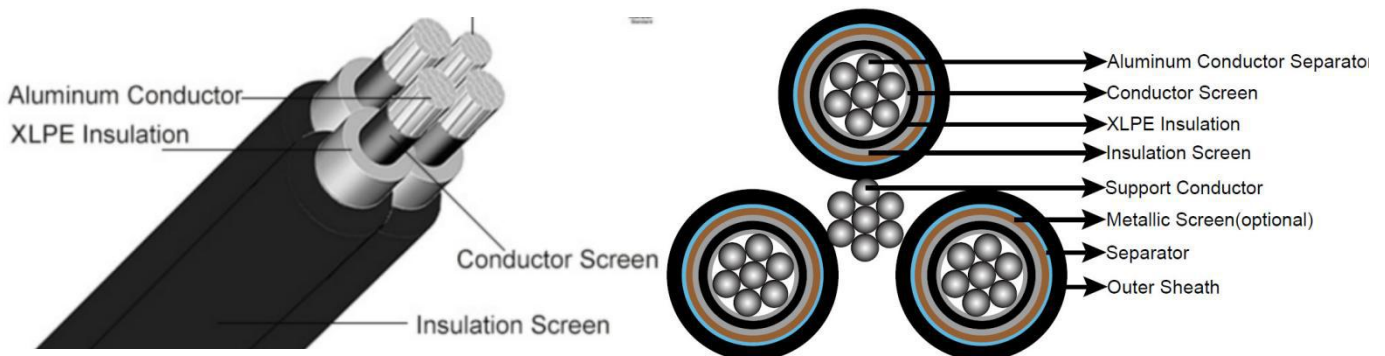
# Australia Standard AS/NZS 3599 6.35/11kV Al/XIPE /HdPE Non-Screened / Screened ABC Cables

## MV Aerial Bundled Conductor (ABC) Cables

### Application

Aerial bundled cables are mainly used for secondary overhead lines on poles or as feeders to residential premises.

### Construction



**Phase Conductor** Circular compacted stranded H68 aluminium to BS2627.

**Conductor Screen** Extruded semi-conductive layer.

**Insulation** XLPE.

**Insulation Screen** Extruded semi-conductive layer.

**metallic Screen(optional)** Copper wire screen or copper tape screen.

**Separator** Semi-conductive swellable tape.

**Outer Sheath** HDPE.

**Support Conductor** Galvanized steel wires.

**Assembly** Three XLPE insulated screened cores are bundled around the galvanized steel wires in a right hand lay.

## Construction Parameters

### AS/NZS 3599 Part 1 6.35/11 kV Al/XIPE /HdPE Non-Screened Cables

Number of Cores x Nominal Cross Section	Phase Conductor				Messenger Suspension Unit	Nominal Sectional Area	Breaking Load
	Diameter of Conductor	Thickness of Insulation	Thickness of Insulation Screen	Thickness of Sheath	Stranding		
No.*mm <sup>2</sup>	mm	mm	mm	mm	No./mm	mm <sup>2</sup>	KN
3x35	6.9	3.4	0.8	1.2	7/4.75	52.4	1370
3x50	8.1	3.4	0.8	1.2	7/4.75	54.6	1530
3x70	9.7	3.4	0.8	1.2	7/4.75	57.8	1790
3x95	11.4	3.4	0.8	1.2	7/4.75	61.3	2100
3x120	12.8	3.4	0.8	1.2	19/3.50	67.3	2540
3x150	14.2	3.4	0.8	1.2	19/3.50	70.1	2840
3x185	15.7	3.4	0.8	1.2	19/3.50	73.1	3190

*Other cross-sections can be offered upon request.*

### AS/NZS 3599 Part 1 6.35/11 kV AL/XLPE /CWS/HDPE Screened Cables

Number of Cores x Nominal Cross Section	Diameter of Conductor	Thickness of Insulation	Thickness of Insulation Screen	Copper Wire Stranding	Thickness of Sheath	Galvanized Steel Wire Stranding	Nominal Sectional Area	Breaking Load
No.*mm <sup>2</sup>	mm	mm	mm	No./mm	mm	No./mm	mm <sup>2</sup>	KN
Light Duty Screen								
3x35	6.9	3.4	0.8	25/0.85	1.8	7/2.00	54.1	1820
3x35	6.9	3.4	0.8	25/0.85	1.8	19/2.00	58.1	2130
3x50	8.1	3.4	0.8	25/0.85	1.8	19/2.00	60.4	2300



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3x70	9.7	3.4	0.8	25/0.85	1.8	19/2.00	63.6	2570
3x95	11.4	3.4	0.8	25/0.85	1.8	19/2.00	67.0	2900
3x120	12.8	3.4	0.8	25/0.85	1.8	19/2.00	69.8	3190
3x150	14.2	3.4	0.8	25/0.85	1.9	19/2.00	73.0	3530
3x185	15.7	3.4	0.8	25/0.85	1.9	19/2.00	76.0	3890

### Heavy Duty Screen

3x35	6.9	3.4	0.8	40/0.85	1.8	7/2.00	54.1	2050
3x35	6.9	3.4	0.8	40/0.85	1.8	19/2.00	58.1	2360
3x50	8.1	3.4	0.8	23/1.35	1.8	19/2.00	62.4	2820
3x70	9.7	3.4	0.8	32/1.35	1.8	19/2.00	65.6	3440
3x95	11.4	3.4	0.8	39/1.35	1.8	19/2.00	69.0	4030
3x120	12.8	3.4	0.8	39/1.35	1.8	19/2.00	71.8	4320
3x150	14.2	3.4	0.8	39/1.35	1.9	19/2.00	75.0	4670
3x185	15.7	3.4	0.8	39/1.35	1.9	19/2.00	78.0	5020

*Other cross-sections can be offered upon request.*

## Technical Data

Nominal Cross Section	Continuous Current Rating		
	Still air	1m/s wind	2m/s wind
mm <sup>2</sup>	A	A	A
35	105	145	165
50	125	170	200
70	150	215	250
95	180	260	300
120	205	300	350
150	230	340	395



185

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