

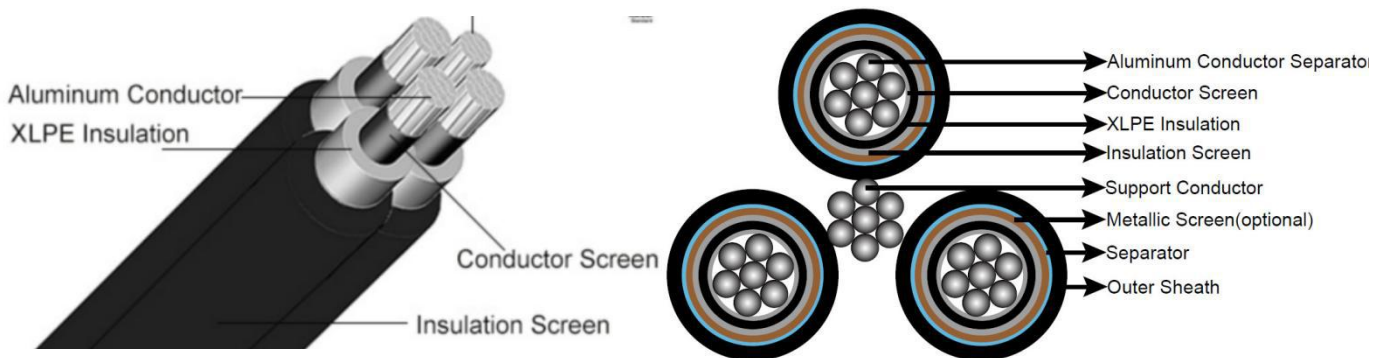
Australia Standard 12.7/22KV Screened/Non-Screened

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.
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Conductor Screen	Extruded semi-conductive layer.
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Insulation	XLPE.
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Insulation Screen	Extruded semi-conductive layer.
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metallic Screen(optional)	Copper wire screen or copper tape screen.
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Separator	Semi-conductive swellable tape.
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Outer Sheath	HDPE.
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Support Conductor	Galvanized steel wires.
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Assembly	Three XLPE insulated screened cores are bundled around the galvanized steel wires in a right hand lay.
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Construction Parameters



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AS/NZS 3599 Part 1 12.7/22 kV AL/XLPE /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 ²	mm	mm	mm	mm	No./mm	mm ²	KN
3x35	6.9	5.5	0.8	1.2	7/4.75	61.0	1780
3x50	8.1	5.5	0.8	1.2	7/4.75	63.3	1970
3x70	9.7	5.5	0.8	1.2	7/4.75	66.5	2260
3x95	11.4	5.5	0.8	1.2	7/4.75	69.9	2600
3x120	12.8	5.5	0.8	1.2	19/3.50	75.9	3070
3x150	14.2	5.5	0.8	1.2	19/3.50	78.7	3390
3x185	15.7	5.5	0.8	1.2	19/3.50	81.7	3760

Other cross-sections can be offered upon request.

AS/NZS 3599 Part 1 12.7/22 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 Screening Stranding	Thickness of Sheath	Galvanized Steel Wire Stranding	Nominal Sectional Area	Breaking Load
No.*mm ²	mm	mm	mm	No./mm	mm	No./mm	mm ²	KN
Light Duty Screen								
3x35	6.9	5.5	0.8	25/0.85	1.8	7/2.00	62.7	2280
3x35	6.9	5.5	0.8	25/0.85	1.8	19/2.00	66.7	2580
3x50	8.1	5.5	0.8	25/0.85	1.8	19/2.00	69.0	2780
3x70	9.7	5.5	0.8	25/0.85	1.9	19/2.00	72.6	3110



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3x95	11.4	5.5	0.8	25/0.85	1.9	19/2.00	76.0	3460
3x120	12.8	5.5	0.8	25/0.85	2.0	19/2.00	79.2	3810
3x150	14.2	5.5	1.0	25/0.85	2.0	19/2.00	82.8	4230
3x185	15.7	5.5	1.0	25/0.85	2.1	19/2.00	86.2	4650

Heavy Duty Screen

3x35	6.9	5.5	0.8	40/0.85	1.8	7/2.00	62.7	2510
3x35	6.9	5.5	0.8	40/0.85	1.8	19/2.00	66.7	2810
3x50	8.1	5.5	0.8	23/1.35	1.8	19/2.00	71.0	3300
3x70	9.7	5.5	0.8	32/1.35	1.9	19/2.00	74.6	3970
3x95	11.4	5.5	0.8	39/1.35	1.9	19/2.00	78.0	4600
3x120	12.8	5.5	0.8	39/1.35	2.0	19/2.00	81.2	4950
3x150	14.2	5.5	1.0	39/1.35	2.0	19/2.00	84.8	5360
3x185	15.7	5.5	1.0	39/1.35	2.1	19/2.00	88.2	5790

Technical Data

Nominal Cross Section	Continuous Current Rating		
	Still air	1m/s wind	2m/s wind
mm ²	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	265	390	450