



• Application

AS/NZS 3599-1 MV Aerial Bundled Cables offer a robust solution for efficient and safe power distribution and is primarily used for secondary overhead lines on poles or as feeders to residential premises. They are designed to enhance safety and reliability in power distribution by reducing the risk of faults and outages.

• Advantage

UV Resistance: The outer HDPE sheath provides excellent resistance to ultraviolet radiation, ensuring longevity and durability in outdoor installations.

Moisture Resistance: The semi-conductive swellable tape acts as a barrier against moisture, preventing water ingress and enhancing the cable's overall lifespan.

Mechanical Strength: The galvanized steel support conductor offers superior mechanical strength, supporting the cable's structure and reducing sagging.

Electrical Performance: The combination of XLPE insulation and semi-conductive layers ensures reliable electrical performance, minimizing losses and enhancing conductivity.

• Performance

Temperature:

Normal operation: 90°C

Emergency overload conditions: 130°C

Short circuit conditions: 250°C

• Construction

Phase Conductor:

Material: Circular compacted stranded H68 aluminium to BS2627

Conductor Screen: Extruded semi-conductive layer

Insulation:

Material: Cross-linked polyethylene (XLPE)

Insulation Screen: Extruded semi-conductive layer

Metallic Screen (optional): Copper wire screen or copper tape screen

Separator: Semi-conductive swellable tape

Outer Sheath:

Material: High-density polyethylene (HDPE)

Support Conductor:

Material: Galvanized steel wires

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

• Specification

-AS/NZS 3599-1 Standard ABC Wire

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

AS/NZS 3599 Part 1 6.35/11 kV Al/XIPE /HdPE Non-Screened Cables							
No. of Cores × Nominal Cross Section Area	Dia. of Conductor	Phase Conductor			Messenger Suspension Unit	Nominal Overall Diameter	Breaking Load
		Thickness of Insulation	Thickness of Insulation Screen	Thickness of Sheath	Stranding		
No.×mm ²	mm	mm	mm	mm	No./mm	mm	kN
3×35	6.9	3.4	0.8	1.2	7/4.75	52.4	1370
3×50	8.1	3.4	0.8	1.2	7/4.75	54.6	1530
3×70	9.7	3.4	0.8	1.2	7/4.75	57.8	1790
3×95	11.4	3.4	0.8	1.2	7/4.75	61.3	2100
3×120	12.8	3.4	0.8	1.2	19/3.50	67.3	2540
3×150	14.2	3.4	0.8	1.2	19/3.50	70.1	2840
3×185	15.7	3.4	0.8	1.2	19/3.50	73.1	3190

AS/NZS 3599 Part 1 6.35/11 kV AL×LPE /CWS/HDPE Screened Cables								
No. of Cores × Nominal Cross Section Area	Dia. of Conductor	Thickness of Insulation	Thickness of Insulation Screen	Copper Wire Screen Stranding	Thickness of Sheath	Galvanized Steel Wire Stranding	Nominal Overall Diameter	Breaking Load
				No./mm		No./mm		
No.×mm ²	mm	mm	mm	No./mm	mm	No./mm	mm	kN
Light Duty Screen								
3×35	6.9	3.4	0.8	25/0.85	1.8	7/2.00	54.1	1820
3×35	6.9	3.4	0.8	25/0.85	1.8	19/2.00	58.1	2130
3×50	8.1	3.4	0.8	25/0.85	1.8	19/2.00	60.4	2300
3×70	9.7	3.4	0.8	25/0.85	1.8	19/2.00	63.6	2570
3×95	11.4	3.4	0.8	25/0.85	1.8	19/2.00	67	2900
3×120	12.8	3.4	0.8	25/0.85	1.8	19/2.00	69.8	3190
3×150	14.2	3.4	0.8	25/0.85	1.9	19/2.00	73	3530
3×185	15.7	3.4	0.8	25/0.85	1.9	19/2.00	76	3890
Heavy Duty Screen								
3×35	6.9	3.4	0.8	40/0.85	1.8	7/2.00	54.1	2050
3×35	6.9	3.4	0.8	40/0.85	1.8	19/2.00	58.1	2360
3×50	8.1	3.4	0.8	23/1.35	1.8	19/2.00	62.4	2820
3×70	9.7	3.4	0.8	32/1.35	1.8	19/2.00	65.6	3440
3×95	11.4	3.4	0.8	39/1.35	1.8	19/2.00	69	4030
3×120	12.8	3.4	0.8	39/1.35	1.8	19/2.00	71.8	4320
3×150	14.2	3.4	0.8	39/1.35	1.9	19/2.00	75	4670
3×185	15.7	3.4	0.8	39/1.35	1.9	19/2.00	78	5020

● Technical Parameters

AS/NZS 3599 Part 1 12.7/22 kV AL/XLPE /HDPE Non-Screened Cables							
No. of Cores × Nominal Cross Section Area	Phase Conductor				Messenger Suspension Unit	Nominal Overall Diameter	Breaking Load
	Dia. of Conductor	Thickness of Insulation	Thickness of Insulation Screen	Thickness of Sheath	Stranding		
No.×mm ²	mm	mm	mm	mm	No./mm	mm	kN
3×35	6.9	5.5	0.8	1.2	7/4.75	61	1780
3×50	8.1	5.5	0.8	1.2	7/4.75	63.3	1970
3×70	9.7	5.5	0.8	1.2	7/4.75	66.5	2260
3×95	11.4	5.5	0.8	1.2	7/4.75	69.9	2600
3×120	12.8	5.5	0.8	1.2	19/3.50	75.9	3070
3×150	14.2	5.5	0.8	1.2	19/3.50	78.7	3390
3×185	15.7	5.5	0.8	1.2	19/3.50	81.7	3760

AS/NZS 3599 Part 1 12.7/22 kV AL×LPE /CWS/HDPE Screened Cables								
No. of Cores × Nominal Cross Section Area	Dia. of Conductor	Thickness of Insulation	Thickness of Insulation Screen	Copper Wire Screen Stranding	Thickness of Sheath	Galvanized Steel Wire Stranding	Nominal Overall Diameter	Breaking Load
				No./mm		No./mm		
No.×mm ²	mm	mm	mm	No./mm	mm	No./mm	mm	kN
Light Duty Screen								
3×35	6.9	5.5	0.8	25/0.85	1.8	7/2.00	62.7	2280
3×35	6.9	5.5	0.8	25/0.85	1.8	19/2.00	66.7	2580
3×50	8.1	5.5	0.8	25/0.85	1.8	19/2.00	69	2780
3×70	9.7	5.5	0.8	25/0.85	1.9	19/2.00	72.6	3110
3×95	11.4	5.5	0.8	25/0.85	1.9	19/2.00	76	3460
3×120	12.8	5.5	0.8	25/0.85	2	19/2.00	79.2	3810
3×150	14.2	5.5	1	25/0.85	2	19/2.00	82.8	4230
3×185	15.7	5.5	1	25/0.85	2.1	19/2.00	86.2	4650
Heavy Duty Screen								
3×35	6.9	5.5	0.8	40/0.85	1.8	7/2.00	62.7	2510
3×35	6.9	5.5	0.8	40/0.85	1.8	19/2.00	66.7	2810
3×50	8.1	5.5	0.8	23/1.35	1.8	19/2.00	71	3300
3×70	9.7	5.5	0.8	32/1.35	1.9	19/2.00	74.6	3970
3×95	11.4	5.5	0.8	39/1.35	1.9	19/2.00	78	4600
3×120	12.8	5.5	0.8	39/1.35	2	19/2.00	81.2	4950
3×150	14.2	5.5	1	39/1.35	2	19/2.00	84.8	5360
3×185	15.7	5.5	1	39/1.35	2.1	19/2.00	88.2	5790

● Technical Parameters

Technical Data			
Nominal Cross Section Area	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