



## • Application

Medium Voltage aerial bundled cables (ABC) are used for secondary overhead lines on poles or as feeders to residential premises, providing a robust solution for efficient and safe power distribution to ensure reliable performance in a wide range of environments.

## • 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:** Class 2 circular compacted stranded Aluminium

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

**Insulation:** Cross-linked polyethylene (XLPE)

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

**Metallic Screen:** Copper wire screen or copper tape screen

**Separator:** Semi-conductive swellable tape

**Outer Sheath:** High-density polyethylene (HDPE)

**Support Conductor:** Galvanized steel wires

## • Specification

-IEC 60502-2 Standard MV Aerial Bundled Cable(ABC)

## • 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

IEC 60502 6.35/11 kV ABC for Overhead Distribution Lines							
No. of Cores × Nominal Cross Section Area	Phase Conductor			Messenger Suspension Unit			Continuous Current Rating at 300C Ambient Temp
	Stranding	Nominal Cross Section Area	Maximum Conductor Resistance	Stranding	Nominal Cross Section Area	Breaking Load	
No.×mm <sup>2</sup>	No./mm	mm <sup>2</sup>	Ω/km	No./mm	mm <sup>2</sup>	kN	A
3×50 + 1×25	19/1.78	50	0.641	7/3.0	50	60	116
3×70 + 1×50	19/1.14	70	0.443	7/3.15	50	62	210
3×95+ 1×50	19/2.52	95	0.32	7/3.0	50	60	173
3×185+1×120	37/2.52	185	0.164	7/4.67	120	150	259
3×150 +1×50	37/2.25	150	0.206	7/3.15	50	62	365
3×240 +1×50	61/2.25	240	0.125	7/3.15	50	62	500

IEC 60502 19/33 kV ABC for Overhead Distribution Lines							
No. of Cores × Nominal Cross Section Area	Phase Conductor			Messenger Suspension Unit			Continuous Current Rating at 300C Ambient Temp
	Stranding	Nominal Cross Section Area	Maximum Conductor Resistance	Stranding	Nominal Cross Section Area	Breaking Load	
No.×mm <sup>2</sup>	No./mm	mm <sup>2</sup>	Ω/km	No./mm	mm <sup>2</sup>	kN	A
3×50 + 1×50	19/1.78	50	0.641	7/3.0	50	60	165
3×150+ 1×50	37/2.25	150	0.206	7/3.0	50	60	315
3×185+1×70	37/2.52	185	0.164	7/3.57	70	91	355
3×70 +1×50	19/2.14	7	0.443	7/3.15	50	62	250
3×150 +1×50	37/2.25	150	0.206	7/3.15	50	62	370

Technical Data			
Nominal Cross Section Area	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	265	390	450

● Technical Parameters

Technical Data			
Nominal Cross Section Area	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	265	390	450