Application

IEC 60502-1 LV Aerial Bundled Cable (ABC) is an internationally recognized solution for low-voltage overhead electrical distribution. Its robust design, coupled with excellent electrical, chemical, mechanical, and thermal properties, ensures efficient power transmission in diverse global environments. These cables are ideal for modern electrical infrastructure projects in both urban and rural settings, providing reliability, safety, and longevity.

Advantage

Safety: IEC 60502-1 ABC cables are designed to minimize electrical hazards, including short circuits and fire risks, through high-quality insulation and robust construction.
Durability: The cables are resistant to UV radiation, chemicals, and mechanical wear, providing a long service life even in harsh outdoor environments.
Flexibility: The design allows for easy installation in various configurations, making it adaptable to different terrains and overhead structures.
Reliability: The robust construction and use of high-performance materials ensure consistent and reliable power distribution, reducing maintenance needs and operational downtime.
Environmental Compatibility: The cables are manufactured using environmentally friendly processes and materials, ensuring compliance with relevant environmental regulations and minimizing ecological impact.

Performance

Electrical performance: 0.6/1kV
Chemical performance: chemical,UV&oil resistance
Mechanical performance: minimum bending radius:10 x cable diameter
Terminal performance : maximum service temperature: 90℃; maximum short-circuit temperature: 250℃(max.5s); minimum service temperature: -40℃

Construction

Phase Conductor: Circular stranded, compact aluminum conductor providing efficient electrical conductivity and mechanical strength.
Neutral/Messenger Conductor: Stranded or compacted aluminum alloy conductor (AAAC), designed for high mechanical strength and electrical reliability.
Optional Street Lighting Conductor: Circular stranded, compact aluminum conductor dedicated for street lighting applications.
Insulation: Black polyethylene (PE) or crosslinked polyethylene (XLPE) ensuring excellent electrical insulation and mechanical protection.

Specification

-IEC 60502-1 Standard low voltage aerial bundled cable

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 Rhineland 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

Cross Section Area	Phase Core				Neutral Core				Complete Cable	
	Cross Section Area	No. of Wires	Conductor Dia.	Insulation Thickness	Cross Section Area	No. of Wires	Conductor Dia.	Insulation Thickness	Approx. Dia.	Approx. Weight
mm^2	mm^2	No.	mm	mm	mm^2	No.	mm	mm	mm	kg/km
1x10	1x10	7	4.05	1.0	-	-	-	-	6.1	43
1x16	1x16	7	4.8	1.2	-	-	-	-	7.2	64
1x25	1x25	7	6	1.2	-	-	-	-	8.4	92
1x35	1x35	7	7	1.4	-	-	-	-	9.8	127
1x50	1x50	7	8.1	1.4	-	-	-	-	11.1	165
1x70	1x70	19	10	1.4	-	-	-	-	12.8	230
1x95	1x95	19	11.6	1.6	-	-	-	-	14.8	315
1x120	1x120	19	13	1.6	-	-	-	-	16.2	390
1x150	1x150	19	14.6	1.8	-	-	-	-	18.2	476
1x185	1x185	37	16.2	2	-	-	-	-	20.2	609
2x10	2x10	7	4	1	-	-	-	-	12.2	85
2x16	2x16	7	4.8	1.2	-	-	-	-	14.4	128
2x25	2x25	7	6	1.2	-	-	-	-	16.8	184
2x35	2x35	7	7	1.4	-	-	-	-	19.6	255
2x50	2x50	7	8.1	1.4	-	-	-	-	22.2	329
2x70	2x70	19	10	1.4	-	-	-	-	25.6	459
3x10	3x10	7	4	1	-	-	-	-	13.1	128
3x16	3x16	7	4.8	1.2	-	-	-	-	17.4	192
3x25	3x25	7	6	1.2	-	-	-	-	20.3	276
3x35	3x35	7	7	1.4	-	-	-	-	21.1	382
3x50	3x50	7	8.1	1.4	-	-	-	-	23.9	494
3x70	3x70	19	10	1.4	-	-	-	-	27.6	688
3x95	3x95	19	11.6	1.6	-	-	-	-	31.9	943
3x120	3x120	19	13	1.6	-	-	-	-	34.9	1170
4x10	4x10	7	4	1	-	-	-	-	14.6	171
4x16	4x16	7	4.8	1.2	-	-	-	-	17.4	256
4x25	4x25	7	6	1.2	-	-	-	-	20.3	368
4x35	4x35	7	7	1.4	-	-	-	-	23.7	509
4x50	4x50	7	8.1	1.4	-	-	-	-	26.8	659
4x70	4x70	19	10	1.4	-	-	-	-	30.9	917
4x95	4x95	19	11.6	1.6	-	-	-	-	35.8	1258
4x120	4x120	19	13	1.6	-	-	-	-	39.1	1559

Technical Parameters

Cross Section Area	Phase Core				Neutral Core				Complete Cable	
	Cross Section Area	No. of Wires	Conductor Dia.	Insulation Thickness	Cross Section Area	No. of Wires	Conductor Dia.	Insulation Thickness	Approx. Dia.	Approx. Weight
mm^2	mm^2	No.	mm	mm	mm^2	No.	mm	mm	mm	kg/km
1x16+16	1x16	7	4.8	1.2	1x16	7	5.1	-	12.3	108
1x25+25	1x25	7	6	1.2	1x25	7	6.3	-	14.7	158
1x35+35	1x35	7	7	1.4	1x35	7	7.5	-	17.3	221
1x50+50	1x50	7	8.4	1.4	1x50	7	9	-	20.1	300
2x16+16	2x16	7	4.8	1.2	1x16	7	5.1	-	15.5	172
2x25+25	2x25	7	6	1.2	1x25	7	6.3	-	18.1	250
2x35+35	2x35	7	7	1.4	1x35	7	7.5	-	21.1	348
2x50+50	2x50	7	8.3	1.4	1x50	7	9	-	22.4	464
3x16+16	3x16	7	4.8	1.2	1x16	7	5.1	-	17.4	235
3x25+25	3x25	7	6	1.2	1x25	7	6.3	-	20.3	342
3x35+35	3x35	7	7	1.4	1x35	7	7.5	-	23.7	475
3x50+50	3x50	7	8.1	1.4	1x50	7	9	-	26.8	629
3x70+70	3x70	19	10	1.4	1x70	19	10.5	-	30.9	869
3x95+95	3x95	19	11.6	1.6	1x95	19	12.5	-	35.7	1200
3x35+16	3x35	7	7	1.4	1x16	7	4.8	-	22.2	445
3x50+25	3x50	7	8.1	1.4	1x25	7	6	-	24.8	585
3x70+35	3x70	19	10	1.4	1x35	7	7	-	30.9	815
3x95+50	3x95	19	11.6	1.6	1x50	7	8.1	-	35.7	1108
4x95+35	4x95	19	11.6	1.6	1x35	7	7	-	39.9	1385
3x120+70	3x120	19	13	1.6	1x70	19	10	-	39.1	1399