



• Application

NF C 33-209 LV Aerial Bundled Cable (ABC) is designed for overhead distribution lines and electrical installations, which is suitable for below applications:

Overhead Distribution Lines: Used in low-voltage (LV) distribution networks.

Electrical Installations: Suitable for residential, commercial, and industrial electrical installations.

Power Networks: Applicable for alternating current (AC) networks with a nominal voltage of U0/U 0.6/1kV and direct current (DC) networks with a maximum voltage of 0.9kV.

• Advantage

Safety: NF C 33-209 ABC is designed to reduce the risk of electrical hazards, including short circuits and fire propagation, due to its high-quality insulation and construction.

Durability: Resistant to UV radiation, chemicals, and mechanical wear, these cables provide a long service life even in harsh outdoor environments.

Flexibility: The minimum bending radius of 10 times the cable diameter allows for easy installation in various configurations, making it adaptable to different terrains and structures.

Reliability: With robust construction and high-performance materials, NF C 33-209 ABC ensures consistent and reliable power distribution, reducing maintenance and downtime.

Environmental Compatibility: Manufactured using environmentally friendly processes and materials, these cables comply with relevant environmental regulations, minimizing ecological impact.

• Performance

Electrical performance: Rated voltage of 0.6/1kV

Chemical performance: Resistant to chemicals, UV radiation, and oil

Mechanical performance: minimum bending radius: 10 x cable diameter

Terminal performance : maximum service temperature: 90°C; max short-circuit temperature: 250°C(Max.5s); min service temperature: -40°C

• Construction

Conductors:

Phase Conductor: Circular stranded, rounded, compact aluminum conductor providing efficient electrical conductivity.

Neutral/Messenger Conductor: Non-compacted or compacted all-aluminum alloy conductor (AAAC) offering high mechanical strength and reliability.

Street Lighting Conductor: Circular stranded, rounded, compact aluminum conductor dedicated for street lighting applications.

Insulation: Black polyethylene (PE) or crosslinked polyethylene (XLPE) ensuring excellent electrical insulation, mechanical protection, and weather resistance.

• Specification

-NF C 33-209 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 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

No. of Conductor and Cross Section Area		Phase Core			Neutral Core			
No. and Cross Section Area	No. and Cross Section Area	No. of Wires	Dia. of Conductor (Approx.)	Insulation Thickness	No. and Cross Section Area	No. of Wires	Dia. of Conductor (Approx.)	Insulation Thickness
mm ²	mm ²	No.	mm	mm	mm ²	No.	mm	mm
2x16	2x16	7	4.8	1.2	-	-	-	-
2x25	2x25	7	6	1.4	-	-	-	-
2x35	2x35	7	7	1.6	-	-	-	-
2x50	2x50	7	8.1	1.6	-	-	-	-
4x16	4x16	7	4.8	1.2	-	-	-	-
4x25	4x25	7	6	1.4	-	-	-	-
4x35	4x35	7	7	1.6	-	-	-	-
3x25+54.6	3x25	7	6	1.4	1x54.6	7	9.45	1.6
3x25+54.6+1x16	3x25	7	6	1.4	1x54.6	7	9.45	1.6
3x25+54.6+2x16	3x25	7	6	1.4	1x54.6	7	9.45	1.6
3x35+54.6	3x35	7	7	1.6	1x54.6	7	9.45	1.6
3x35+54.6+1x16	3x35	7	7	1.6	1x54.6	7	9.45	1.6
3x35+54.6+2x16	3x35	7	7	1.6	1x54.6	7	9.45	1.6
3x50+54.6	3x50	7	8.1	1.6	1x54.6	7	9.45	1.6
3x50+54.6+1x16	3x50	7	8.1	1.6	1x54.6	7	9.45	1.6
3x50+54.6+2x16	3x50	7	8.1	1.6	1x54.6	7	9.45	1.6
3x70+54.6	3x70	12	10	1.8	1x54.6	7	9.45	1.6
3x70+54.6+1x16	3x70	12	10	1.8	1x54.6	7	9.45	1.6
3x70+54.6+2x16	3x70	12	10	1.8	1x54.6	7	9.45	1.6
3x70+54.6+1x25	3x70	12	10	1.8	1x54.6	7	9.45	1.6
3x70+54.6+2x25	3x70	12	10	1.8	1x54.6	7	9.45	1.6

● Technical Parameters

No. of Conductor		Street Lighting Core			Complete Cable	
and Cross Section Area	No. and Cross Section Area	No. of Wires	Dia. of Conductor	Insulation Thickness	Overall Dia. (Approx.)	Weight (Approx.)
mm ²	mm ²	No.	mm	mm	mm	kg/km
2x16	-	-	-	-	14.2	126
2x25	-	-	-	-	17.6	194
2x35	-	-	-	-	20.4	266
2x50	-	-	-	-	22.6	341
4x16	-	-	-	-	17.2	252
4x25	-	-	-	-	21.2	388
4x35	-	-	-	-	24.6	533
3x25+54.6	-	-	-	-	23.6	496
3x25+54.6+1x16	1x16	7	4.8	1.2	24.9	560
3x25+54.6+2x16	2x16	7	4.8	1.2	26.6	624
3x35+54.6	-	-	-	-	26.1	604
3x35+54.6+1x16	1x16	7	4.8	1.2	27.2	668
3x35+54.6+2x16	2x16	7	4.8	1.2	28.7	732
3x50+54.6	-	-	-	-	28.1	716
3x50+54.6+1x16	1x16	7	4.8	1.2	28.9	780
3x50+54.6+2x16	2x16	7	4.8	1.2	30.3	844
3x70+54.6	-	-	-	-	32.2	940
3x70+54.6+1x16	1x16	7	4.8	1.2	32.7	1004
3x70+54.6+2x16	2x16	7	4.8	1.2	33.8	1068
3x70+54.6+1x25	1x25	7	6	1.4	33.6	1038
3x70+54.6+2x25	2x25	7	6	1.4	35.5	1137