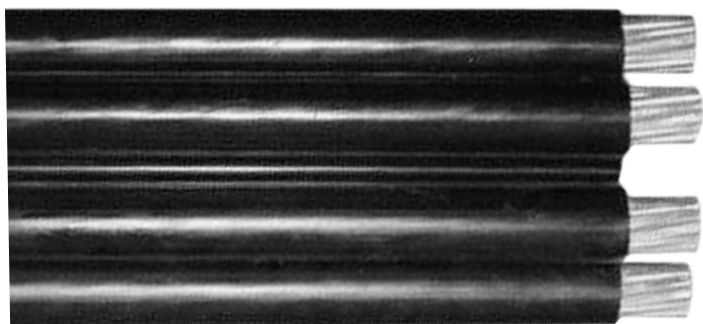


LV NFC 33-209 Aerial Bunched Cable



APPLICATIONS

The products applies to the lines of 0.6/1kv, aerial insulated cable for overhead power distribution lines, admissible long-term operating temperature for conductor of cable for PVC and PE insulated, not exceed 70°C, For XLPE insulation, not exceed 90°C.

Structure

The products is also called insulated ABC Cable, suitable for copper core, aluminum core or aluminum alloy core weatherproof PVC, PE and XLPE insulated overhead cable under AC rated voltage of 1kv in overhead power line. 0.6/1kv Aerial Insulated Cable consists of Aluminum, Hard Copper or Soft Copper, Aluminum alloy Core, PVC/PE/XLPE Insulation.

Standard

NFC 33-209

LV NFC 33-209 Aerial Bunched Cable

DESCRIPTION		INSULATED CONDUCTORS					Average insulation Thickness	CABLE BUNDLE	
Type	Nominal Cross Section	Wire Number in the Conductor	Maximum Resistance at 20°C	Average Diameter of Conductors		Rated Strength		Overall Diameter	
	mm ²	Minimum	Ohm/km	Min.mm	Max.mm	Min kN	mm	Min. mm	Max.mm
Phase neutral and public lighting	16	7	1.91	4.6	5.1	1.9	1.2	7	7.8
	25	7	1.2	5.8	6.3	3	1.4	8.6	9.4
	35	7	0.868	6.8	7.3	-	1.6	10	10.9
	50	7	0.641	7.9	8.4	-	1.6	11.1	12
	70	12	0.443	9.7	10.2	-	1.8	13.3	14.2
	95	19	0.32	11	12	-	1.8	14.6	15.7
	120	19	0.253	12	13.1	-	1.8	15.6	16.7
	150	19	0.206	13.9	15	-	1.7	17.3	18.6
Porter	54.6	7	0.63	9.2	9.6	16.6	1.6	12.3	13
	70	7	0.5	10	10.2	20.5	1.5	12.9	13.6
	95	19	0.343	12.2	12.9	27.5	1.6	15.3	16.3

Nominal Area	Number /Dia.	Insulation Thickness	Dcresistance PHASE	NEUTRAL Rated Strength kn		Delivery Lerngh
mm ²	mm	mm	& Ω /km	AAC	AAAC	km
1×16+16	7/1.70	1.3	1.7986	3.02	4.69	10
2×16+16	7/1.70	1.3	1.7986	3.02	4.69	7.5
3×16+16	7/1.70	1.3	1.7986	3.02	4.69	5
4×16	7/1.70	1.3	1.7986	3.02	4.69	5
1×25+25	7/2.10	1.3	1.1787	4.36	7.15	6.5
2×25+25	7/2.10	1.3	1.1787	4.36	7.15	5
3×25+25	7/2.10	1.3	1.1787	4.36	7.15	3.2
4×25	7/2.10	1.3	1.1787	4.36	7.15	3.2
1×35+35	7/2.50	1.3	0.8317	6.01	10.14	4.5
2×35+35	7/2.50	1.3	0.8317	6.01	10.14	3.5
3×35+35	7/2.50	1.3	0.8317	6.01	10.14	2.2
4×35	7/2.50	1.3	0.8317	6.01	10.14	2.2
1×50+50	7/3.0	1.5	0.5776	8.41	14.6	3
3×50+50	7/3.0	1.5	0.5776	8.41	14.6	1.3
1×70+70	19/2.10	1.5	0.4367	11.85	19.41	2.2
3×70+70	19/2.10	1.5	0.4367	11.85	19.41	0.8
3×95+95	19/2.50	1.6	0.3081	16.32	27.51	0.5

LV NFC 33-209 Aerial Bunched Cable

Code Word			3×25mm ² + 1×54.6mm ²	3×35mm ² + 1×54.6mm ²	3×50mm ² + 1×54.6mm ²	3×70mm ² + 1×54.6mm ²	3×35mm ² +1× 54.6mm ² +1× 16mm ²	3×70mm ² +1× 54.6mm ² +1× 16mm ²	3×70+1× 70mm ²
Phase Conductor	Cross Section (mm)		25	35	50	70	35	70	70
	Number of Wires		7	7	7	12	7	12	12
	Insulation Thickness (mm)		1.4	1.6	1.6	1.8	1.6	1.8	1.8
	D.C.Resistance At 20 °C (Ohm/km)		1.2	0.868	0.641	0.443	0.868	0.443	0.443
	Minium Rated Strength(daN)		300	-	-	-	-	-	-
Messenger	Cross Section (mm)		54.6	54.6	54.6	54.6	54.6	54.6	70
	Number of Wires		7	7	7	7	7	7	7
	Insulation Thickness (mm)		1.6	1.6	1.6	1.6	1.6	1.6	1.5
	D.C.Resistance At 20 °C (Ohm/km)		0.63	0.63	0.63	0.63	0.63	0.63	0.5
	Minium Rated Strength(daN)		1660	1660	1660	1660	1660	1660	2050
Public Lighting	Cross Section (mm)		-	-	-	-	16	16	-
	Number of Wires		-	-	-	-	7	7	-
	Insulation Thickness (mm)		-	-	-	-	1.2	1.2	-
	D.C.Resistance At 20 °C (Ohm/km)		-	-	-	-	1.91	1.91	-
	Minium Rated Strength(daN)		-	-	-	-	190	190	-
Conductor Diameter	Phase	Max	6.3	7.3	8.4	10.2	7.3	10.2	10.2
		Min	5.8	6.8	7.9	9.7	6.8	9.7	9.7
	Messenger	Max	-	-	-	-	5.1	5.1	-
		Min	-	-	-	-	4.6	4.6	-
	Public Lighting	Max	-	-	-	-	5.1	5.1	-
		Min	-	-	-	-	4.6	4.6	-
Overall Diameter	Phase	Max	9.4	10.9	12	14.2	10.9	14.2	14.2
		Min	8.6	10	11.1	13.3	10	13.3	13.3
	Messenger	Max	13	13	13	13	13	13	13.6
		Min	12.3	12.3	12.3	12.3	12.3	12.3	12.9
	Public Lighting	Max	-	-	-	-	7.8	7.8	-
		Min	-	-	-	-	7	7	-

LV NFC 33-209 Aerial Bunched Cable

Code Word			3×70mm ² + 1×16mm ²	3×95mm ² + 1×70mm ²	3×95mm ² + 1× 70+ 1×16mm ²	3×120mm ² + 1×70mm ²	3×120mm ² + 1×70+1× 16mm ²	3×150mm ² +1 ×70mm ²	3×70mm ² +1× 70mm ² +1× 16mm ²
Phase Conductor	Cross Section (mm)		70	95	95	120	120	150	150
	Number of Wires		12	19	19	19	19	19	19
	Insulation Thickness (mm)		1.8	1.8	1.8	1.8	1.8	1.7	1.7
	D.C.Resistance At 20 °C (Ohm/km)		0.443	0.32	0.32	0.253	0.253	0.206	0.206
	Minium Rated Strength(daN)		-	-	-	-	-	-	-
Messenger	Cross Section (mm)		70	70	70	70	70	70	70
	Number of Wires		7	7	7	7	7	7	7
	Insulation Thickness (mm)		1.5	1.5	1.5	1.5	1.5	1.5	1.5
	D.C.Resistance At 20 °C (Ohm/km)		0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Minium Rated Strength(daN)		2050	2050	2050	2050	2050	2050	2050
Public Lighting	Cross Section (mm)		16	-	16	-	16	-	16
	Number of Wires		7	-	7	-	7	-	7
	Insulation Thickness (mm)		1.2	-	1.2	-	1.2	-	1.2
	D.C.Resistance At 20 °C (Ohm/km)		1.91	-	1.91	-	1.91	-	1.91
	Minium Rated Strength(daN)		190	-	190	-	190	-	190
Conductor Diameter	Phase	Max	10.2	12	12	13.1	13.1	15	15
		Min	9.7	11	11	12	12	13.9	13.9
	Messenger	Max	10.2	10.2	10.2	10.2	10.2	10.2	10.2
		Min	10	10	10	10	10	10	10
	Public Lighting	Max	5.1	-	5.1	-	5.1	5.1	5.1
		Min	4.6	-	4.6	-	4.6	4.6	4.6
Overall Diameter	Phase	Max	14.2	15.7	15.7		16.7	16.7	18.6
		Min	13.3	14.6	14.6		15.6	15.6	17.3
	Messenger	Max	13.6	13.6	13.6		13.6	13.6	13.6
		Min	12.9	12.9	12.9		12.9	12.9	12.9
	Public Lighting	Max	7.8	-	7.8		7.8	7.8	7.8
		Min	7	-	7		7	7	7