

LV Aerial Bundled Conductor (ABC) Cables

600/1000V ABC –Aerial Bundled Cables to NFC 33-209 (AL/XLPE)

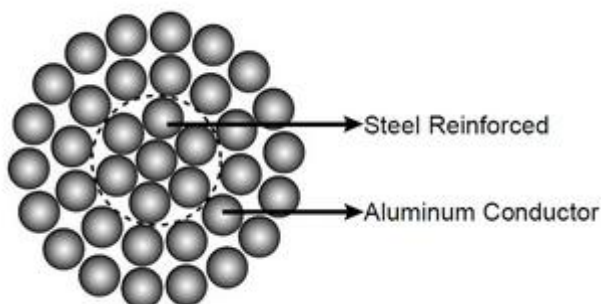
Application

The aerial bundled cables designed for fixed installation as overhead power lines up to 1000 V incl.

Standard

NFC 33-209

Cable Construction



Construction

Phase Conductor	Aluminium conductor, round stranded compressed (RM).
Neutral Conductor	Alloy aluminium conductor (AlMgSi), round stranded compressed (RM).
Insulation	XLPE. Load-bearing / neutral core – marked with standard and producers phase core – marked with digits 1, 2, 3.
Assembly	Cores and the neutral, conductor stranded together in right-hand lay, additionally 1, 2 or 3 cores of reduced cross section can be co-stranded.

Technical Data

Rated voltage	kV	0.6/1
Test voltage	V _{eff} kV/Hz	4/50
Laying temperature	°C	min. -5
Operating temperature	°C	-30 ~ +90
Conductor temperature	°C	max. +90
Short-circuit temperature	°C/s	max. +250 /5
Bending radius (min.)	mm	20 × Ø of cable

Dimensions

Number of cores x nominal cross section	max. conductor-resistance	min. breaking load of conductor strand	Current rating in the air	Outer diameter	Total weight
mm ²	Ohm/km	kN	A	mm	kg/km
2x10 RM	3.080	1.5	38	12.8	93
4x10 RM	3.080	1.5	38	15.4	183
2x16 RM	1.910	2.3	72	14.8	129
2x16 RN + 2x1.5 RE	1.910/12.100	2.3	72	14.8	176
4x16 RM	1.910	2.3	72	17.8	257
4x16 RN + 2x1.5 RE	1.910/12.100	2.3	72	17.8	304
2x25 RM	1.200	3.8	107	18.0	202
2x25 RM + 2x1,5 RE	1.200/12.100	3.8	107	18.0	249
4x25 RM	1.200	3.8	107	21.7	404
4x25 RM + 2x1,5 RE	1.200/12.100	3.8	107	21.7	451
2x35 RM	0.868	5.2	132	20.8	269
2x35 RM + 2x1,5 RE	0.868/12.100	5.2	132	20.8	316
4x35 RM	0.868	5.2	132	25.1	539
4x35 RM + 2x1,5 RE	0.868/12.100	5.2	132	25.1	586
2x50 RM	0.641	7.6	165	23.4	352
2x50 RM + 2x1,5 RE	0.641/12.100	7.6	165	23.4	399
1x54.6 RM + 3x25 RM	0.630/1.200	3.8	107	21.7	507
1x54.6 RM + 3x25 RM + 1x16 RM	0.630/1.200/1.910	3.8/2.3	107/72	24.3	573
1x54.6 RM + 3x25 RM + 2x16 RM	0.630/1.200/1.910	3.8/2.3	107/72	29.7	639
1x54.6 RM + 3x25 RM + 3x16 RM	0.630/1.200/1.910	3.8/2.3	107/72	31.1	705
1x54.6 RM + 3x35 RM	0.630/0.868	5.2	132	25.1	615
1x54.6 RM + 3x35 RM + 1x16 RM	0.630/0.868/1.910	5.2/2.3	132/72	28.1	680
1x54.6 RM + 3x35 RM + 2x16 RM	0.630/0.868/1.910	5.2/2.3	132/72	34.3	748
1x54.6 RM + 3x35 RM + 3x16 RM	0.630/0.868/1.910	5.2/2.3	132/72	35.9	814
1x54.6 RM + 3x35 RM + 1x25 RM	0.630/0.868/1.200	5.2/3.8	132/107	28.1	714
1x54.6 RM + 3x50 RM	0.630/0.641	7.6	165	28.2	741
1x54.6 RM + 3x50 RM + 1x16 RM	0.630/0.641/1.910	7.6/2.3	165/72	31.6	806
1x54.6 RM + 3x50 RM + 2x16 RM	0.630/0.641/1.910	7.6/2.3	165/72	38.6	875
1x54.6 RM + 3x50 RM + 3x16 RM	0.630/0.641/1.910	7.6/2.3	165/72	40.4	940
1x54.6 RM + 3x50 RM + 1x25 RM	0.630/0.641/1.200	7.6/3.8	165/107	31.6	841
1x54.6 RM + 3x70 RM	0.630/0.443	10.2	205	33.0	950

1x54.6 RM + 3x70 RM + 1x16 RM	0.630/0.443/1.910	10.2/2.3	205/72	37.0	1014
1x54.6 RM + 3x70 RM + 2x16 RM	0.630/0.443/1.910	10.2/2.3	205/72	45.2	1083
1x54.6 RM + 3x70 RM + 3x16 RM	0.630/0.443/1.910	10.2/2.3	205/72	47.3	1148
1x54.6 RM + 3x70 RM + 1x25 RM	0.630/0.443/1.200	10.2/3.8	205/107	37.0	1048
1x54.6 RM + 3x70 RM + 2x25 RM	0.630/0.443/1.200	10.2/3.8	205/107	45.2	1150
1x54.6 RM + 3x70 RM + 3x25 RM	0.630/0.443/1.200	10.2/3.8	205/107	47.3	1250
1x54.6 RM + 3x95 RM	0.630/0.320	13.5	240	37.4	1176
1x54.6 RM + 3x95 RM + 1x16 RM	0.630/0.320/1.910	13.5/2.3	240/72	41.9	1243

other cross-sections on request