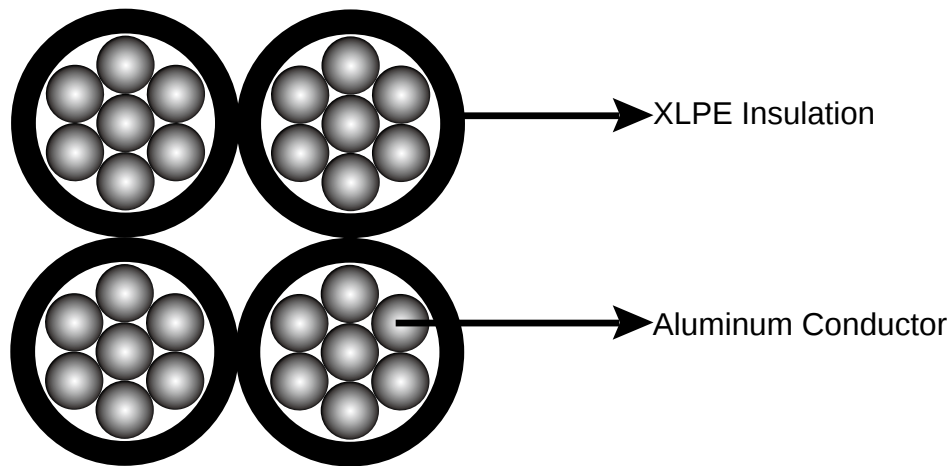


LV Aerial Bundled Conductor (ABC) Cables



APPLICATION

Aerial Bundle Cable (ABC cable) is a very innovative concept for overhead power distribution as compared to the conventional bare conductor overhead distribution system. It provides higher level of safety and reliability, lower power losses and ultimate system economy by reducing installation, maintenance and operative cost.

Caledonian LV Aerial Bundle Cables are designed to supply 600/1000 volt aerial service for temporary service at construction sites, as a service drop (power pole to service entrance), as a secondary cable (pole to pole) or street lighting. This over-head cable provides reinforced insulation acc. IEC 61140 and fulfill therefore Class II acc. IEC 61140. It is not flame retardant. But this could be if requested change to a flame retardant cable.

STANDARD

Basic design to BS 7870 / TNB Specification(IEC 60502) / HD 626 S1 / NFC 33-209 / AS/NZS 3560-1 standards

CONSTRUCTION

Conductor: Aluminium conductor, round stranded compressed (RM).

Insulation: XPLE compound, UV-resistant.

Core Identification: 1, 2 resp. 3 raised longitudinal ribs on the surface of the cores. The surface of the neutral core should have at least 12 ribs for cross-sections up to 50 mm² and a minimum of 16 ribs for cores above 50 mm². In the case of five core bundles the surface of the protective core should be smooth.

ELECTRICAL PROPERTIES

Rated Voltage	0.6/1kV
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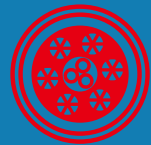
Caledonian Aluminium Conductor Cables

Test Voltage	4 Veff kV
Minimum Laying Temperature	-20°C
Operating Temperature	-40°C~ +90°C
Maximum Short-circuit Temperature	250°C
Maximum Conductor Temperature	80°C
Minimum Bending Radius	18×OD

CONSTRUCTION PARAMETERS

- BS 7870

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. xmm ²	mm	Kg/Km	Ω/Km	KN	A
1x16 RM	8,0	74	1,910	2,5	72
1x25 RM	9,0	106	1,200	4,0	107
1x35 RM	10,5	138	0,868	5,5	132
1x50 RM	11,8	182	0,641	8,0	165
1x70 RM	13,0	252	0,443	10,7	205
1x95 RM	15,4	333	0,320	13,7	240
1x120 RM	17,0	408	0,253	18,6	290
1x150 RM	19,0	502	0,206	23,2	334
1x185 RM	21,0	611	0,164	28,7	389
1x240 RM	24,0	801	0,125	37,2	467
2x16 RM	15,6	147	1,910	2,5	72
2x25 RM	18,0	208	1,200	4,0	107
2x35 RM	20,0	277	0,868	5,5	132
2x50 RM	23,5	361	0,641	8,0	165



Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. xmm ²	mm	Kg/Km	Ω/Km	KN	A
2x70 RM	25,4	505	0,443	10,7	205
2x95 RM	30,3	666	0,320	13,7	240
2x150 RM	38,0	1004	0,206	23,2	334
4x16 RM	18,8	286	1,910	2,5	72
4x25 RM	21,2	430	1,200	4,0	107
4x35 RM	24,1	553	0,868	5,5	132
4x50 RM	27,8	746	0,641	8,0	165
4x70 RM	31,8	1.009	0,443	10,7	205
4x95 RM	37,8	1.332	0,320	13,7	240
4x120 RM	54,4	1.632	0,253	18,6	290
4x50 + 1x25 RM	319	814	0,641/1,200	8,0/4,0	165/107
4x50 + 1x35 RM	319	845	0,641/0,868	8,5/5,5	165/132
4x70 + 1x25 RM	360	1105	0,443/1,200	10,7/4,0	205/107
4x70 + 2x25 RM	400	1217	0,443/1,200	10,7/4,0	205/107
4x95 + 1x25 RM	418	1438	0,320/1,200	13,7/4,0	240/107
4x95 + 2x25 RM	420	1544	0,320/1,200	13,7/4,0	240/107
4x120 + 1x25 RM	590	2050	0,253/1,200	18,6/4,0	290/107

Other cross-sections can be offered upon request.

• TNB Specification(IEC 60502)

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. xmm ²	mm	Kg/Km	Ω/Km	KN	A
1x16+1x25 RM	15.3	160	1,910	2,5	72



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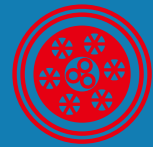
Caledonian Aluminium Conductor Cables

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. x mm ²	mm	Kg/Km	Ω/Km	KN	A
3x16+1x25 RM	19.0	290	1,200	4,0	107
3x25+1x25 RM	23.2	400	0,868	5,5	132
3x35+1x25 RM	25.6	500	0,641	8,0	165
3x50+1x35 RM	30.0	680	0,443	10,7	205
3x70+1x50 RM	34.9	920	0,320	13,7	240
3x95+1x70 RM	40.6	1270	0,253	18,6	290
3x120+1x70 RM	44.1	1510	0,206	23,2	334
3x150+1x95 RM	49.2	1870	0,164	28,7	389
3x185+1x120 RM	54.9	2340	0,125	37,2	467
3x25+1x25+1x16 RM	23.2	470	1,910	2,5	72
3x35+1x25+1x16 RM	25.6	560	1,200	4,0	107
3x50+1x35+1x16 RM	30.0	740	0,868	5,5	132
3x70+1x50+1x16 RM	34.9	980	0,641	8,0	165
3x95+1x70+1x16 RM	40.6	1330	0,443	10,7	205
3x120+1x70+1x16 RM	44.1	1580	0,320	13,7	240
3x150+1x95+1x16 RM	49.2	1940	0,206	23,2	334
3x185+1x120+1x16 RM	54.9	2410	1,910	2,5	72

Other cross-sections can be offered upon request.

- HD 626 S1**

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Minimum Breaking Load	Current Rating
No. x mm ²	mm	Kg/Km	KN	A
2x16 RM	72	147	1,910	2,5
2x25 RM	107	208	1,200	4,0



Number of Cores xNominal Cross Section	Overall Diameter	Weight	Minimum Breaking Load	Current Rating
No. x mm ²	mm	Kg/Km	KN	A
2x35 RM	132	277	0,868	5,5
2x50 RM	165	361	0,641	8,0
4x16 RM	72	286	1,910	2,5
4x25 RM	107	430	1,200	4,0
4x35 RM	132	553	0,868	5,5
4x50 RM	165	746	0,641	8,0
4x70 RM	205	1009	0,443	10,7
4x95 RM	240	1332	0,320	13,7
4x120 RM	290	1632	0,253	18,6
4x35 + 1x35 RM	132/132	694	0,868/0,868	5,5/5,5
4x50 + 1x25 RM	165/107	814	0,641/1,200	8,0/4,0
4x50 + 1x35 RM	165/132	845	0,641/0,868	8,5/5,5
4x70 + 1x25 RM	205/107	1105	0,443/1,200	10,7/4,0
4x70 + 2x25 RM	205/107	1217	0,443/1,200	10,7/4,0
4x70 + 1x35 RM	205/132	1150	0,443/0,868	10,7/5,5
4x70 + 2x35 RM	205/132	1289	0,443/0,868	10,7/5,5
4x95 + 1x25 RM	240/107	1438	0,320/1,200	13,7/4,0
4x95 + 1x35 RM	240/132	1467	0,320/0,868	13,7/5,5
4x95 + 2x25 RM	240/107	1544	0,320/1,200	13,7/4,0

Other cross-sections can be offered upon request.

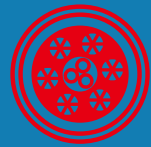


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Caledonian Aluminium Conductor Cables

- NFC 33-209

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. x mm ²	mm	Kg/Km	Ω/Km	KN	A
2x10 RM	12.8	93	3.080	1.5	38
4x10 RM	15.4	183	3.080	1.5	38
2x16 RM	14.8	129	1.910	2.3	72
2x16 RN + 2x1.5 RE	14.8	176	1.910/12.100	2.3	72
4x16 RM	17.8	257	1.910	2.3	72
4x16 RN + 2x1.5 RE	17.8	304	1.910/12.100	2.3	72
2x25 RM	18.0	202	1.200	3.8	107
2x25 RM + 2x1,5 RE	18.0	249	1.200/12.100	3.8	107
4x25 RM	21.7	404	1.200	3.8	107
4x25 RM + 2x1,5 RE	21.7	451	1.200/12.100	3.8	107
2x35 RM	20.8	269	0.868	5.2	132
2x35 RM + 2x1,5 RE	20.8	316	0.868/12.100	5.2	132
4x35 RM	25.1	539	0.868	5.2	132
4x35 RM + 2x1,5 RE	25.1	586	0.868/12.100	5.2	132
2x50 RM	23.4	352	0.641	7.6	165
2x50 RM + 2x1,5 RE	23.4	399	0.641/12.100	7.6	165
1x54.6 RM + 3x25 RM	21.7	507	0.630/1.200	3.8	107
1x54.6 RM + 3x25 RM + 1x16 RM	24.3	573	0.630/1.200/1.910	3.8/2.3	107/72
1x54.6 RM + 3x25 RM + 2x16 RM	29.7	639	0.630/1.200/1.910	3.8/2.3	107/72
1x54.6 RM + 3x25 RM + 3x16 RM	31.1	705	0.630/1.200/1.910	3.8/2.3	107/72
1x54.6 RM + 3x35 RM	25.1	615	0.630/0.868	5.2	132



Number of Cores xNominal Cross Section	Overall Diameter	Weight	Maximum Conductor Resistance	Minimum Breaking Load	Current Rating
No. xmm ²	mm	Kg/Km	Ω/Km	KN	A
1x54.6 RM + 3x35 RM + 1x16 RM	28.1	680	0.630/0.868/1.910	5.2/2.3	132/72
1x54.6 RM + 3x35 RM + 2x16 RM	34.3	748	0.630/0.868/1.910	5.2/2.3	132/72
1x54.6 RM + 3x35 RM + 3x16 RM	35.9	814	0.630/0.868/1.910	5.2/2.3	132/72
1x54.6 RM + 3x35 RM + 1x25 RM	28.1	714	0.630/0.868/1.200	5.2/3.8	132/107
1x54.6 RM + 3x50 RM	28.2	741	0.630/0.641	7.6	165
1x54.6 RM + 3x50 RM + 1x16 RM	31.6	806	0.630/0.641/1.910	7.6/2.3	165/72
1x54.6 RM + 3x50 RM + 2x16 RM	38.6	875	0.630/0.641/1.910	7.6/2.3	165/72
1x54.6 RM + 3x50 RM + 3x16 RM	40.4	940	0.630/0.641/1.910	7.6/2.3	165/72
1x54.6 RM + 3x50 RM + 1x25 RM	31.6	841	0.630/0.641/1.200	7.6/3.8	165/107
1x54.6 RM + 3x70 RM	33.0	950	0.630/0.443	10.2	205
1x54.6 RM + 3x70 RM + 1x16 RM	37.0	1014	0.630/0.443/1.910	10.2/2.3	205/72
1x54.6 RM + 3x70 RM + 2x16 RM	45.2	1083	0.630/0.443/1.910	10.2/2.3	205/72
1x54.6 RM + 3x70 RM + 3x16 RM	47.3	1148	0.630/0.443/1.910	10.2/2.3	205/72
1x54.6 RM + 3x70 RM + 1x25 RM	37.0	1048	0.630/0.443/1.200	10.2/3.8	205/107
1x54.6 RM + 3x70 RM + 2x25 RM	45.2	1150	0.630/0.443/1.200	10.2/3.8	205/107
1x54.6 RM + 3x70 RM + 3x25 RM	47.3	1250	0.630/0.443/1.200	10.2/3.8	205/107
1x54.6 RM + 3x95 RM	37.4	1176	0.630/0.320	13.5	240
1x54.6 RM + 3x95 RM + 1x16 RM	41.9	1243	0.630/0.320/1.910	13.5/2.3	240/72

Other cross-sections can be offered upon request.



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Caledonian Aluminium Conductor Cables

- AS/NZS 3560 Part 1

Number of Cores xNominal Cross Section	Overall Diameter	Weight	Minimum Breaking Load	Current Rating
No.xmm ²	mm	Kg/Km	KN	A
2x16 RM	15.0	140	4.4	78
2x25 RM	17.6	210	7.0	105
2x35 RM	19.6	270	9.8	125
2x50 RM	22.8	370	11.4	150
2x95 RM	30.6	680	15.3	230
3x25 RM	19.0	310	8.8	97
3x35 RM	21.1	410	9.8	120
3x50 RM	24.6	550	11.4	140
4x16 RM	18.1	290	8.8	74
4x25 RM	21.2	410	14.0	97
4x35 RM	23.7	550	19.6	120
4x50 RM	27.5	740	28.0	140
4x70 RM	31.9	1000	39.2	175
4x95 RM	36.9	1370	53.2	215
4x120 RM	40.6	1690	67.2	250
4x150 RM	43.9	2020	84.0	280

Other cross-sections can be offered upon request.