



## LV Aerial Bundled Cable (ABC)

### APPLICATION

For distribution low power overhead networks in metropolitan, urban and rural areas. For supply of remote facilities and villages of temporary and permanent character. For above-ground house connections.

### APPLYING TERMS

1. Rated Voltage  $U_0/U$ : 0.6/1KV
2. Long-term permissible working temperature of cable  
Conductor: PVC and PE insulated cables can't exceed  $70^{\circ}\text{C}$ , and XLPE insulated cable shall not exceed  $90^{\circ}\text{C}$
3. The layout temperature of cable not be lower than  $-20^{\circ}\text{C}$
4. Permissible bending radius of cable: The cable whose O.D. is shorter than 25mm, it's radius shall not be less than 4D; The cable whose O.D. is 25mm or more than, it's radius shall not be less than 6D;

### CONSTRUCTION

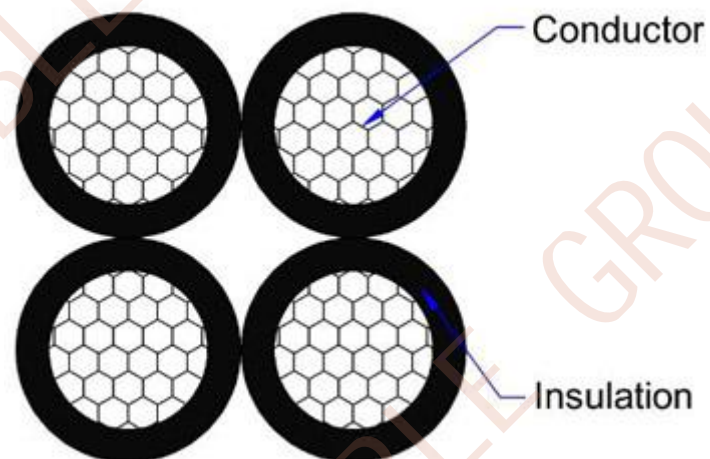
1. VOLTAGE - 0.6/1KV.
2. CORES - 1,2,3, 4, 3+1,4+1 etc.
3. SECTION -  $10\text{mm}^2 \sim 120\text{mm}^2$
4. PHASE CONDUCTOR - AAC
5. NEUTRAL CONDUCTOR - AAAC/ACSR
6. INSULATION - XLPE/ PE/ PVC/ LEPE/ HDPE

### ISO/IEC 17025 TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

### STANDARD

GB/T12527-2008/NFC 33-209/ BS 7870-5/ IEC 60502/A





**600/1000V ABC – Aerial Bundled Cables (AL/XLPE) GB/T12527-2008**

Number of cores x nominal cross section	max. conductor-resistance	Min. breaking load of conductor strand	Current rating in the air	Nominal Insulation Thickness	MAX Diameter phase core	MAX Diameter neutral core	Total weight
MM <sup>2</sup>	Ohm/km	KN	A	MM	MM	MM	KG/KM
2X25 RM	1.2	4.1	107	1.3	9.7	10.2	200
2X35 RM	0.868	5.6	132	1.3	10.7	11.2	266
2X50 RM	0.641	7.6	165	1.5	12.1	12.6	374
2x70 RM	0.443	11.0	205	1.5	13.8	14.3	506
2X95 RM	0.320	15.3	258	1.7	16.1	16.6	681
2X120 RM	0.253	19.4	300	1.7	17.6	18.1	816
3X25 RM	1.2	4.1	107	1.3	9.7	10.2	318
3X35 RM	0.868	5.6	132	1.3	10.7	11.2	414
3X50 RM	0.641	7.6	165	1.5	12.1	12.6	545
3X70 RM	0.443	11.0	205	1.5	13.8	14.3	756
3X95 RM	0.320	15.3	258	1.7	16.1	16.6	999
3X120 RM	0.253	19.4	300	1.7	17.6	18.1	1224
5X25 RM	1.910	4.1	107	1.3	9.7	10.2	530
5X35 RM	1.200	5.6	132	1.3	10.7	11.2	690
5X50 RM	0.868	7.6	165	1.5	12.1	12.6	910
5X70 RM	0.641	11.0	205	1.5	13.8	14.3	1260
5X95 RM	0.320	15.3	258	1.7	16.1	16.6	1665
5X120 RM	1.200	19.4	300	1.7	17.6	18.1	2040



### 600/1000V ABC –Aerial Bundled Cables to AS/NZS 3560.1 (AL/XLPE)

Number of cores x nominal cross section	Min. breaking load of conductor strand	Current rating in the air	Outer diameter	Total weight
MM <sup>2</sup>	KN	A	MM	KG/KM
2X16 RM	4.4	78	15.0	140
2X25 RM	7.0	105	17.6	210
2X35 RM	9.8	125	19.6	270
2X50 RM	11.4	150	22.8	370
2X95 RM	15.3	230	30.6	680
3X25 RM	8.8	97	19.0	310
3X35 RM	9.8	120	21.1	410
3X50 RM	11.4	140	24.6	550
4X16 RM	8.8	74	18.1	290
4X25 RM	14.0	97	21.2	410
4X35 RM	19.6	120	23.7	550
4X50 RM	28.0	140	27.5	740
4X70 RM	39.2	175	31.9	1000
4X95 RM	53.2	215	36.9	1370
4X120 RM	67.2	250	40.6	1690
4X150 RM	84.0	280	43.9	2020



**600/1000V ABC - Aerial Bundled Cables to BS 7870-5 (AL/XLPE)**

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 <sup>2</sup>	Ohm/km	KN	A	MM	KG/KM
1X16 RM	1.910	2.5	72	8.0	74
1X25 RM	1.200	4.0	107	9.0	106
1X35 RM	0.868	5.5	132	10.5	138
1X50 RM	0.641	8.0	165	11.8	182
1X70 RM	0.443	10.7	205	13.0	252
1X95 RM	0.320	13.7	240	15.4	333
1X120 RM	0.253	18.6	290	17.0	408
1X150 RM	0.206	23.2	334	19.0	502
1X185 RM	0.164	28.7	389	21.0	611
1X240 RM	0.125	37.2	467	24.0	801
2X16 RM	1.910	2.5	72	15.6	147
2X25 RM	1.200	4.0	107	18.0	208
2X35 RM	0.868	5.5	132	20.0	277
2X50 RM	0.641	8.0	165	23.5	361
2X70 RM	0.443	10.7	205	25.4	505
2X95 RM	0.320	13.7	240	30.3	666
2X150 RM	0.206	23.2	334	38.0	1004
4X16 RM	1.910	2.5	72	18.8	286
4X25 RM	1.200	4.0	107	21.2	430
4x35 RM	0.868	5.5	132	24.1	553
4x50 RM	0.641	8.0	165	27.8	746
4x70 RM	0.443	10.7	205	31.8	1009
4x95 RM	0.320	13.7	240	37.8	1332
4x120 RM	0.253	18.6	290	54.4	1632
4x50+1x25 RM	0.641/1.200	8.0/4.0	165/107	31.9	814
4x50+1x35 RM	0.641/0.868	8.5/5.5	165/132	31.9	845
4x70+1x25 RM	0.443/1.200	10.7/4.0	205/107	36.0	1105
4x70+2x25 RM	0.443/1.200	10.7/4.0	205/107	40.0	1217
4x95+1x25 RM	0.320/1.200	13.7/4.0	240/107	41.8	1438
4x95+2x25 RM	0.320/1.200	13.7/4.0	240/107	42.0	1544
4x120+1x25 RM	0.253/1.200	18.6/4.0	290/107	59.0	2050



### 600/1000V ABC - Aerial Bundled Cables to IEC 60502 & TNB Specification (AL/PE)

Number of cores x nominal cross section	Min. breaking load of conductor strand	Current rating in the air	Outer diameter	Total weight
MM <sup>2</sup>	KN	A	MM	KG/KM
1x16+1x25 RM	6.4	61	15.3	160
3x16+1x25 RM	6.4	61	19.0	290
3x25+1x25 RM	6.4	84	23.2	400
3x35+1x25 RM	6.4	104	25.6	500
3x50+1x35 RM	8.9	129	30.0	680
3x70+1x50 RM	12.1	167	34.9	920
3x95+1x70 RM	18.0	209	40.6	1270
3x120+1x70 RM	18.0	246	44.1	1510
3x150+1x95 RM	24.2	283	49.2	1870
3x185+1x120 RM	30.8	332	54.9	2340
3x25+1x25+1x16 RM	6.4	84	23.2	470
3x35+1x25+1x16 RM	6.4	104	25.6	560
3x50+1x35+1x16 RM	8.9	129	30.0	740
3x70+1x50+1x16 RM	12.1	167	34.9	980
3x95+1x70+1x16 RM	18.0	209	40.6	1330
3x120+1x70+1x16 RM	18.0	246	44.1	1580
3x150+1x95+1x16 RM	24.2	283	49.2	1940
3x185+1x120+1x16 RM	30.8	332	54.9	2410



### ABC Cable NFC 33-209 Standard

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 <sup>2</sup>	Ohm/km	KN	A	MM	KG/KM
2X10 RM	3.08	1.5	38	12.8	93
4X10 RM	3.08	1.5	38	15.4	183
2X16 RM	1.91	2.3	72	14.8	129
2X16RM+2X1.5RE	1.91/12.1	2.3	72	14.8	176
4X16 RM	1.91	2.3	72	17.8	257
4X16RM+2X1.5RE	1.91/12.1	2.3	72	17.8	304
2X25 RM	1.2	3.8	107	18	202
2X25RM+2X1.5RE	1.2/12.1	3.8	107	18	249
4X25 RM	1.2	3.8	107	21.7	404
4X25RM+2X1.5RE	1.2/12.1	3.8	107	21.7	451
2X35 RM	0.868	5.2	132	20.8	269
2X35RM+2X1.5RE	0.868/12.1	5.2	132	20.8	316
4X35 RM	0.868	5.2	132	25.1	539
4X35RM+2X1.5RE	0.868/12.1	5.2	132	25.1	586
2X50 RM	0.641	7.6	165	23.4	352
2X50RM+2X1.5RE	0.641/12.1	7.6	165	23.4	399
1X54.6RM+3X25RM	0.630/1.2	3.8/2.3	107	21.7	507
1X54.6RM+3X25RM+1X16RM	0.630/1.2/1.91	3.8/2.3	107/72	24.3	573
1X54.6RM+3X25RM+2X16RM	0.630/1.2/1.91	3.8/2.3	107/72	29.7	639
1X54.6RM+3X25RM+3X16RM	0.630/1.2/1.91	3.8/2.3	107/72	31.1	705
1X54.6RM+3X35RM	0.630/0.868	5.2	132	25.1	615
1X54.6RM+3X35RM+1X16RM	0.630/0.868/1.91	5.2/2.3	132/72	28.1	680
1X54.6RM+3X35RM+2X16RM	0.630/0.868/1.91	3.8/2.3	132/72	34.3	748
1X54.6RM+3X35RM+3X16RM	0.630/0.868/1.91	3.8/2.3	132/72	35.9	814
1X54.6RM+3X35RM+1X25RM	0.630/0.868/1.2	3.8/2.3	132/107	28.1	714
1X54.6RM+3X50RM	0.630/0.641	7.6	165	28.2	741
1X54.6RM+3X50RM+1X16RM	0.630/0.641/1.91	7.6/2.3	165/72	31.6	806
1X54.6RM+3X50RM+2X16RM	0.630/0.641/1.91	7.6/2.3	165/72	38.6	875
1X54.6RM+3X50RM+3X16RM	0.630/0.641/1.91	7.6/2.3	165/72	40.4	940
1X54.6RM+3X50RM+1X25RM	0.630/0.641/1.2	7.6/2.3	165/107	31.6	841
1X54.6RM +3X70RM	0.630/0.443	10.2	205	33	950
1X54.6RM+3X70RM+1X16RM	0.630/0.443/1.91	10.2/2.3	205/72	37	1014
1X54.6RM+3X70RM+2X16RM	0.630/0.443/1.91	10.2/2.3	205/72	45.2	1083
1X54.6RM+3X70RM+3X16RM	0.630/0.443/1.91	10.2/2.3	205/72	47.3	1148



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 <sup>2</sup>	Ohm/km	KN	A	MM	KG/KM
1X54.6RM+3X70RM+1X25RM	0.630/0.443/1.2	10.2/2.3	205/107	37	1048
1X54.6RM+3X70RM+2X25RM	0.630/0.443/1.2	10.2/2.3	205/107	45.2	1150
1X54.6RM+3X70RM+3X25RM	0.630/0.443/1.2	10.2/2.3	205/107	47.3	1250
1X54.6RM +3X95RM	0.630/0.320	13.5	240	37.4	1176
1X54.6RM+3X95RM+1X16RM	0.630/0.320/1.91	13.5/2.3	240/72	41.9	1243