

CATALOGUE NO. HNTDDL-1001

TDDL Cable

- Aluminium
- Conductor
- Steel
- Reinforced



Home Market
Address: Shijiawan Industrial Zone, Yanshi, Luoyang City, Henan
Province, China
Zip code: 471922
Phone: +86 379 67516888 +86 379 67526888
Fax: +86 379 67512888
E-mail: hntddl@163.com
Website: www.hntddl.com

Oversea Market
Address: Room 1203, Pufa International Finance Center, No.299
Jinshui Road, Zhengzhou, China
Zip code: 450003
Phone: +86 371 60311151 +86 371 60311152
Fax: +86 371 60311150
E-mail: admin@hntddl.net.cn
Website: www.hntddl.com

WIRE & CABLE

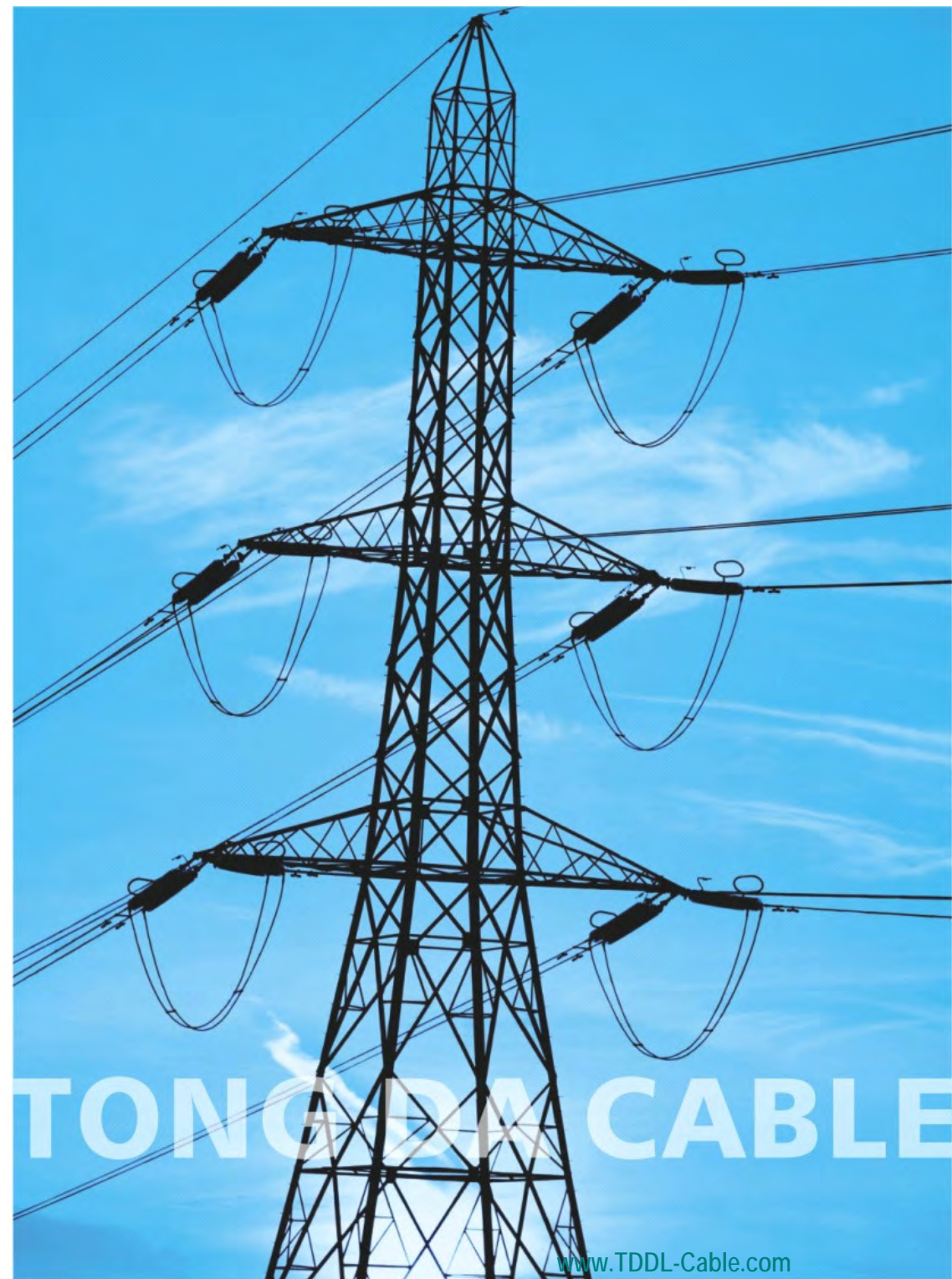
TDDL

HENAN TONG-DA CABLE CO.,LTD.

Henan Tong DA Cable Co., Ltd. D/B/A TDDL Cable

On April 11, 2011, TDDL successfully issued “A” shares in the Shenzhen stock exchange and became a publicly listed company with stock ID 002560.

TDDL Cable's ACSR conductors have been in operation of the world first 1000kV AC and +-800kV HVDC lines.





INTRODUCTION OF CHAIRMAN MR. SHI WANFU

Our Chairman, Mr. Shi Wanfu graduated from Senior BMBA of Tsinghua University, was appointed commissioner of PPCC (People's Political Consultative Conference) Luoyang City 11th Committee, vice-president of Yanshi Municipal Federation of Industry and Commerce.

Since 1987 of our company founded, he always takes the tenet of sincerely manage and technological innovations, basing ourselves on reality, pioneering for progress, develops our enterprise to bigger and bigger. Under his leadership, our company become No.1 bid winner of China State Grid, and supplies more than one hundred thousand tons of goods for China key projects, along with Three Gorges Project, Olympic preparation line project and China first 1000kV ultrahigh voltage transmission line project, awarded by numerous users.

Chairman Shi possesses a strong social responsibility. In the beginning of 2008, ice damage lead to a large scale power cut in south China, he did whatever he could and sent conductors, which were very urgent for local people, to first-aid repair line at the first time. On May of 2008, after the occurring of shocking earthquake in Wenchuan country, Sichuan Province, he took the lead and organized employees to donate.

Mr. Shi also shows great enthusiasm in public welfare work. He established Wanfu Foundation for Poverty Alleviation to assist poor families, invested lots of money to help local education. Later a school is named after him by the government. Mr. Shi takes active in Spring Bud Action to help poor university students to complete their college education. Meanwhile he contributes to artistic performances, which greatly enrich people's culture life.

With outstanding contribution, Mr. Shi was considered "Henan Excellent Private Entrepreneur" by Henan Provincial Committee and Henan Provincial Government, along with "Luoyang Model Worker" by Luoyang Municipal People's Government.

Chairman Mr. Shi Wanfu sincerely wish to establish long-term friendship and cooperate with you in the near future.

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About us

Henan Tong-Da Cable Co., Ltd founded in 1987, is located at Luoyang, the hometown of peony. It is about 20 kilometers from Shaolin Temple and covers an area of 80,000 square meters, with capital asset reaching RMB 300 million (USD 45 million). The annual production capacity of conductors and power cables is more than 60,000 tons.

Our company is specialized in conductors, such as: All Aluminium Conductor (AAC), All Aluminium Alloy Conductor (AAAC), Aluminium Conductor Steel Reinforced (ACSR), Aluminium Conductor Aluminium Clad Steel Reinforced (ACSR/AW), All Aluminium Alloy Steel Reinforced (AACSR), Aluminium Conductor Aluminium Alloy Reinforced (ACAR), Aluminium Clad Steel Strand (ACS), Galvanized Steel Wire Strand. We can also supply Aerial Bundled Cable (ABC cable), PVC Insulated Wire and Flexible Wire, PVC Insulated Power Cable, XLPE Insulated Power Cable, General Rubber sheathed Flexible Cable, Mining Cable, Welding Cable and Control Cable.

These products meet standards of GB, IEC, BS, DIN/VDE, ASTM, JIS, NF, AS/NZS, CSA and so on. Meanwhile we can produce according to customers' requirements and specifications.

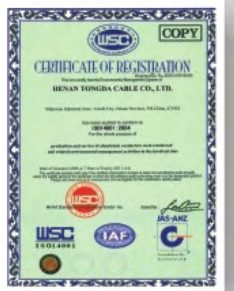
Over the years, we have supplied large quantities of overhead conductors for Three Gorges Power Transmission, Power Transmission from West to East, Beijing Olympic Games and other national key projects. These products have been extended to the markets in 20 provinces in China and other countries in Southeast Asia, Africa, Europe and the Americas.

We are one of the top rank companies, winning the bid in the large-scale public bidding of the China State Grid in the last few years. In the bidding of the first domestically developed 1000kV southeast Shanxi-Nanyang-Jingmen Ultra High Voltage A.C. transmission line project, our company has succeeded, awarded the recognition of customers.

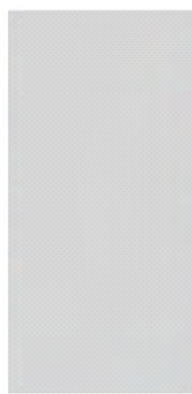
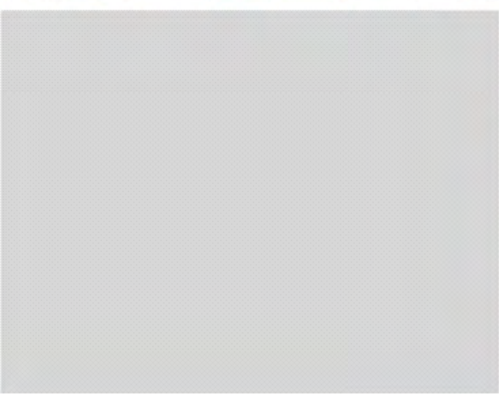
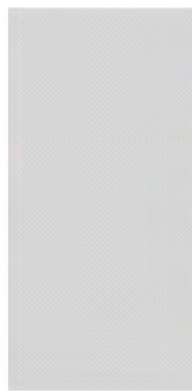
We have obtained certificates of ISO9001, ISO14001, China's Electrical Product Safety Certification, State Economic and Trade Commission Recommended Manufacturer of the Transformation of Urban and Rural Power Grid Construction.

Through years of unremitting effort and endeavors, we have achieved sound reputation and widely compliments from clients all over the world by superior quality, reasonable price and sincere after-sale services. Hereby we sincerely welcome you to contact us and visit our company.

More Than 20 Years of Experience

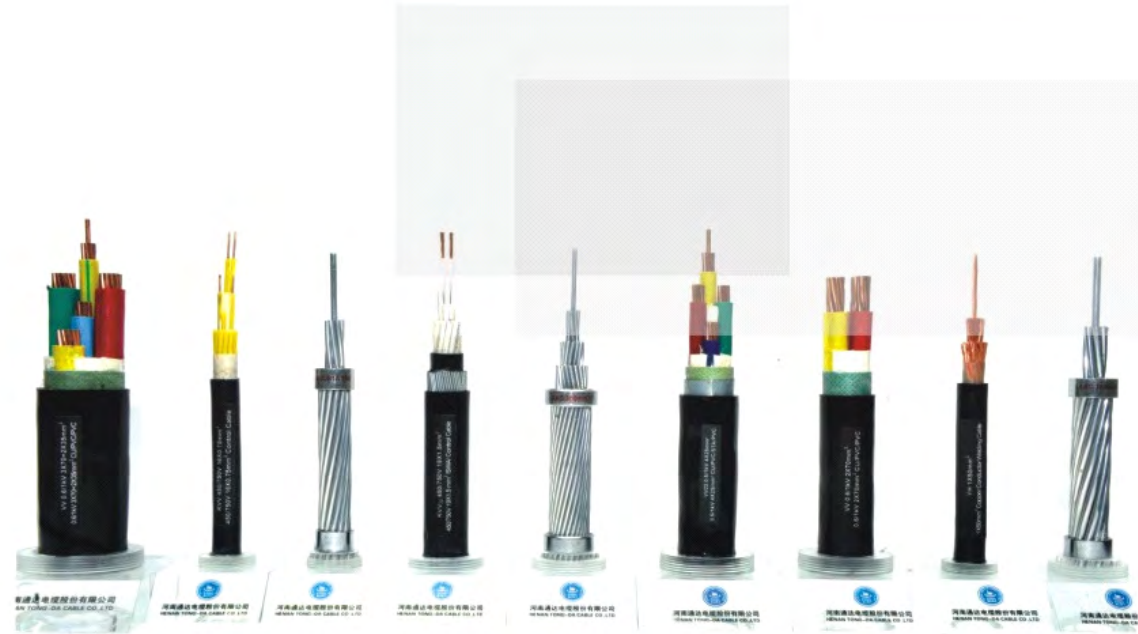


CERTIFICATES



EQUIPMENTS





PRODUCTS

ALUMINUM ROD FOR ELECTRICAL PURPOSES

1. Standard

Producing and providing the products according to Chinese standard GB/T3954-2001, and consulting and following the American standard ASTM B233:1997 and Germany DIN standard EN17152:1997.

2. The Type, Condition and Range

| Type | Condition | Range (mm) |
|---|-----------|------------|
| A | O | φ 9~20 |
| A _s , A _t , A _c , A _e | H/R | |

3. The Mechanics and Electric Function

| Type | Tensile Strength (Mpa) | Percentage Elongation (%≥) | Resistivity at 20℃ (nΩ · m≤) |
|----------------|------------------------|----------------------------|------------------------------|
| A | 60~80 | 25 | 27.55 |
| A _s | 80~100 | 12 | 27.85 |
| A _t | 95~115 | 10 | 28.01 |
| A _c | 110~130 | 8 | 28.01 |
| A _e | 120~150 | 6 | 28.01 |

4. The Component of Material

| Name of Element | Si | Fe | Cu | V+Ti+Mn+Cr | Other | Al |
|-----------------|-------|------|------|------------|-------|--------|
| Percentage % | ≤0.11 | 0.25 | 0.01 | 0.02 | 0.03 | ≥99.61 |

Note: When the mechanics function and electric function of products are qualified, the component of chemistry element may not be the total checking data.

5. The Quantity on Surface

- It should be neat and well-distributed in dimension on surface of aluminum rod.
- Aluminum rod surface should be clean and not be flaw, wrinkle, wrong round, crackle, mess, kink and no other shortcoming for using, but it is permitted for permissible slightly mechanical rub speck, pit, losing leather or fling border.

6. Example for Ordering

Ordering mark of aluminum rod for electrical purposes for type A2 and diameter 9.5mm is A2φ9.5-Chinese Standard GB/T 3954-2001.

ALUMINUM ROD FOR ELECTRICAL PURPOSES

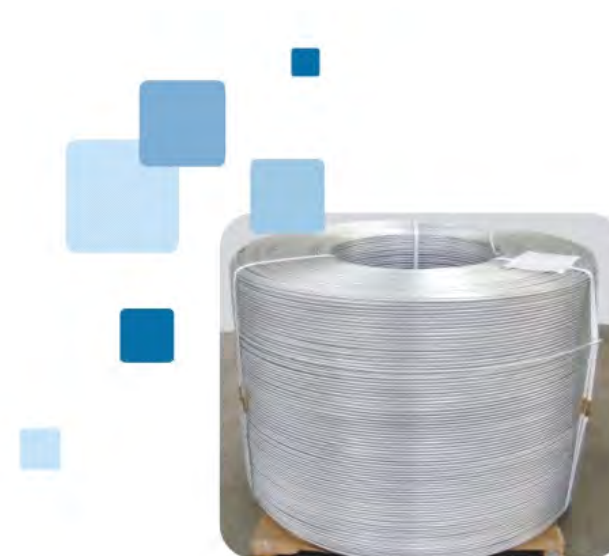
Standard Specification for Aluminum 1350 Drawing Stock for Electrical Purposes

TABLE 1- Tensile Property Limits

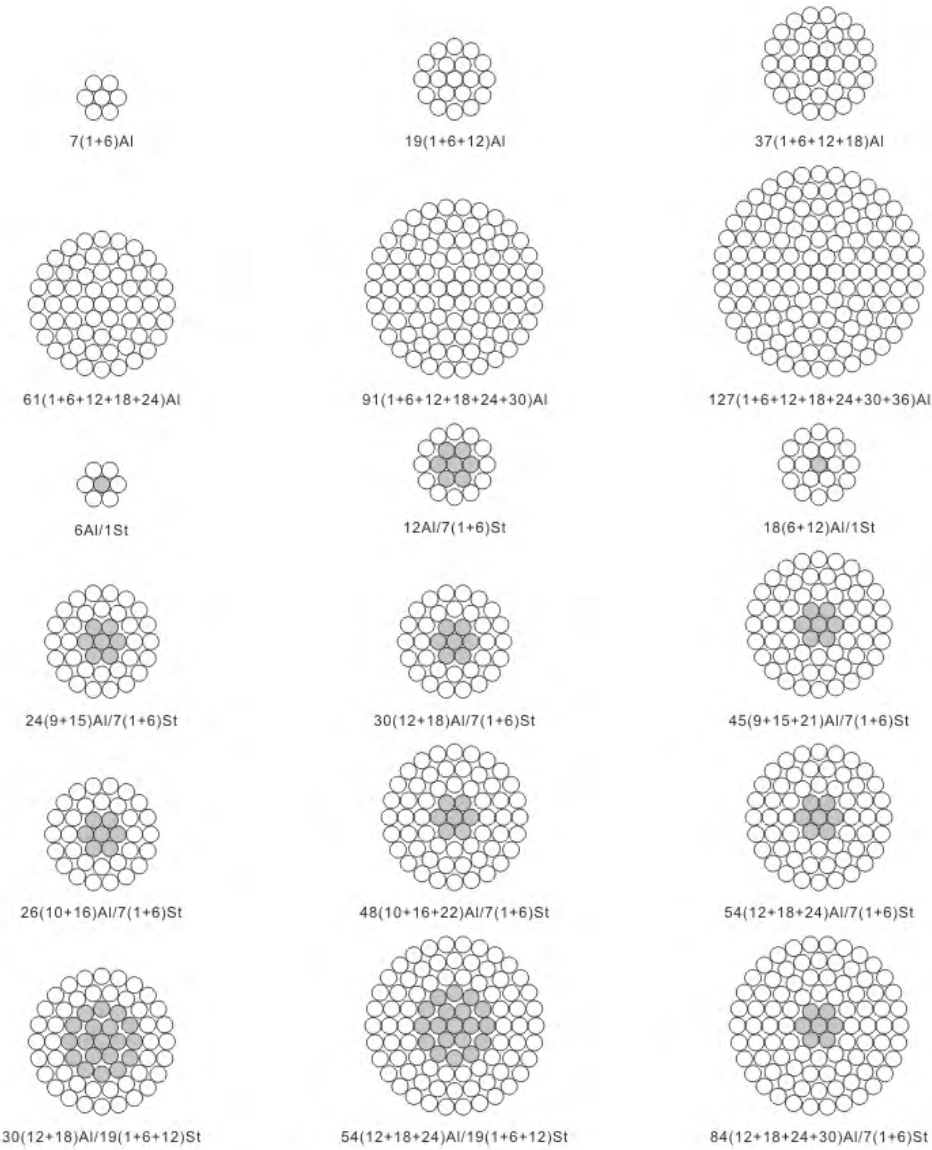
| Temper | Tensile Strength | |
|------------------|------------------|---------|
| | Ksj | Mpa |
| 1350-O | 8.5~14.0 | 59~97 |
| 1350-H12 and-H22 | 12.0~17.0 | 83~117 |
| 1350-H14 and-H24 | 15.0~20.0 | 103~138 |
| 1350-H16 and-H26 | 17.0~22.0 | 117~152 |

TABLE 2- Electrical Resistivity Limits

| Temper | Resistivity Max. Ω·mm ² /m | Equivalent Volume Conductivity, % IACS Min |
|------------------|---------------------------------------|--|
| 1350-O | 0.027899 | 61.8 |
| 1350-H12 and-H22 | 0.028035 | 61.5 |
| 1350-H14 and-H24 | 0.028080 | 61.4 |
| 1350-H16 and-H26 | 0.028126 | 61.3 |



CONSTRUCTION OF OVERHEAD CONDUCTORS



ALL ALUMINIUM STRANDED CONDUCTOR
AAC (JL)

Chinese Standard GB/T 1179-2008

| Nominal Area Al | Code Number | Calculated Area | Number of Wires | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-------------|-----------------|-----------------|----------|-------|-------------|----------------|------------------------------|
| | | | | Wire | Cond. | | | |
| mm ² | | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 10 | 10 | 10 | 7 | 1.35 | 4.05 | 27.4 | 1.95 | 2.8633 |
| 16 | 16 | 16 | 7 | 1.71 | 5.12 | 43.8 | 3.04 | 1.7896 |
| 25 | 25 | 25 | 7 | 2.13 | 6.40 | 68.4 | 4.50 | 1.1453 |
| 40 | 40 | 40 | 7 | 2.70 | 8.09 | 109.4 | 6.80 | 0.7158 |
| 63 | 63 | 63 | 7 | 3.39 | 10.2 | 172.3 | 10.39 | 0.4545 |
| 100 | 100 | 100 | 19 | 2.59 | 12.9 | 274.8 | 17.00 | 0.2877 |
| 125 | 125 | 125 | 19 | 2.89 | 14.5 | 343.6 | 21.25 | 0.2302 |
| 160 | 160 | 160 | 19 | 3.27 | 16.4 | 439.8 | 26.40 | 0.1798 |
| 200 | 200 | 200 | 19 | 3.66 | 18.3 | 549.7 | 32.00 | 0.1439 |
| 250 | 250 | 250 | 19 | 4.09 | 20.5 | 687.1 | 40.00 | 0.1151 |
| 315 | 315 | 315 | 37 | 3.29 | 23.0 | 867.9 | 51.97 | 0.0916 |
| 400 | 400 | 400 | 37 | 3.71 | 26.0 | 1102.0 | 64.00 | 0.0721 |
| 450 | 450 | 450 | 37 | 3.94 | 27.5 | 1239.8 | 72.00 | 0.0641 |
| 500 | 500 | 500 | 37 | 4.15 | 29.0 | 1377.6 | 80.00 | 0.0577 |
| 560 | 560 | 560 | 37 | 4.39 | 30.7 | 1542.9 | 89.60 | 0.0515 |
| 630 | 630 | 630 | 61 | 3.63 | 32.6 | 1738.3 | 100.80 | 0.0458 |
| 710 | 710 | 710 | 61 | 3.85 | 34.6 | 1959.1 | 113.60 | 0.0407 |
| 800 | 800 | 800 | 61 | 4.09 | 36.8 | 2207.4 | 128.00 | 0.0361 |
| 900 | 900 | 900 | 61 | 4.33 | 39.0 | 2483.3 | 144.00 | 0.0321 |
| 1000 | 1000 | 1000 | 61 | 4.57 | 41.1 | 2759.2 | 160.00 | 0.0289 |
| 1120 | 1120 | 1120 | 91 | 3.96 | 43.5 | 3093.5 | 179.20 | 0.0258 |
| 1250 | 1250 | 1250 | 91 | 4.18 | 46.0 | 3452.6 | 200.00 | 0.0231 |
| 1400 | 1400 | 1400 | 91 | 4.43 | 48.7 | 3866.9 | 224.00 | 0.0207 |
| 1500 | 1500 | 1500 | 91 | 4.58 | 50.4 | 4143.1 | 240.00 | 0.0193 |

ALL ALUMINIUM STRANDED CONDUCTOR
 AAC

ASTM B231

| Code Name | Total Area | | Stranding and Wire Diameter | Overall Diameter | Linear Mass | Nominal Breaking Load | Max. D.C. Resistance at 20°C |
|-------------|------------|-----------------|-----------------------------|------------------|-------------|-----------------------|------------------------------|
| | AWG or MCM | mm ² | | | | | |
| Peachbell | 6 | 13.29 | 7/1.554 | 4.67 | 37 | 249 | 2.1692 |
| Rose | 4 | 21.16 | 7/1.961 | 5.89 | 58 | 396 | 1.3624 |
| Iris | 2 | 33.61 | 7/2.474 | 7.42 | 93 | 597 | 0.8577 |
| Pansy | 1 | 42.39 | 7/2.776 | 8.33 | 117 | 732 | 0.6801 |
| Poppy | 1/0 | 53.48 | 7/3.119 | 9.36 | 147 | 873 | 0.5390 |
| Aster | 2/0 | 67.42 | 7/3.503 | 10.51 | 186 | 1100 | 0.4276 |
| Phlox | 3/0 | 85.03 | 7/3.932 | 11.80 | 234 | 1347 | 0.3390 |
| Oxlip | 4/0 | 107.23 | 7/4.417 | 13.26 | 296 | 1698 | 0.2688 |
| Valerian | 250 | 126.71 | 19/2.913 | 14.57 | 349 | 2062 | 0.2275 |
| Sneezewort | 250 | 126.71 | 7/4.80 | 14.4 | 349 | 2007 | 0.2275 |
| Laurel | 266.8 | 135.16 | 19/3.01 | 15.05 | 373 | 2200 | 0.2133 |
| Daisy | 266.8 | 135.16 | 7/4.96 | 14.9 | 373 | 2141 | 0.2133 |
| Peony | 300 | 152.0 | 19/3.193 | 15.97 | 419 | 2403 | 0.1896 |
| Tulip | 336.4 | 170.45 | 19/3.381 | 16.91 | 470 | 2695 | 0.1691 |
| Daffodil | 350 | 177.35 | 19/3.447 | 17.24 | 489 | 2804 | 0.1625 |
| Canna | 397.5 | 201.42 | 19/3.673 | 18.36 | 555 | 3184 | 0.1431 |
| Goldentuft | 450 | 228 | 19/3.909 | 19.55 | 629 | 3499 | 0.1264 |
| Syringa | 477 | 241.68 | 37/2.882 | 20.19 | 666 | 3849 | 0.1193 |
| Cosmos | 477 | 241.68 | 19/4.023 | 20.12 | 666 | 3708 | 0.1193 |
| Hyacinth | 500 | 253.35 | 37/2.951 | 20.65 | 698 | 4035 | 0.1138 |
| Zinnia | 500 | 253.35 | 19/4.12 | 20.6 | 698 | 3888 | 0.1138 |
| Dahlia | 556.5 | 282 | 19/4.346 | 21.73 | 777 | 4327 | 0.1022 |
| Mistletoe | 556.5 | 282 | 37/3.114 | 21.79 | 777 | 4362 | 0.1022 |
| Meadowsweet | 600 | 304 | 37/3.233 | 22.63 | 838 | 4703 | 0.0948 |
| Orchid | 636 | 322.25 | 37/3.33 | 23.31 | 888 | 4985 | 0.0894 |
| Heuchera | 650 | 329.35 | 37/3.366 | 23.56 | 908 | 5095 | 0.0875 |
| Flag | 700 | 354.71 | 61/2.72 | 24.48 | 978 | 5146 | 0.0813 |

 ALL ALUMINIUM STRANDED CONDUCTOR
 AAC

ASTM B231

| Code Name | Total Area | | Stranding and Wire Diameter | Overall Diameter | Linear Mass | Nominal Breaking Load | Max. D.C. Resistance at 20°C |
|------------|------------|-----------------|-----------------------------|------------------|-------------|-----------------------|------------------------------|
| | AWG or MCM | mm ² | | | | | |
| Verbena | 700 | 354.71 | 37/3.493 | 24.45 | 978 | 5487 | 0.0813 |
| Nasturtium | 715.5 | 362.58 | 61/2.75 | 24.76 | 1000 | 5874 | 0.0795 |
| Violet | 715.5 | 362.85 | 37/3.533 | 24.74 | 1000 | 5609 | 0.0795 |
| Cattail | 750 | 380 | 61/2.817 | 25.35 | 1048 | 5985 | 0.0759 |
| Petunia | 750 | 380 | 37/3.617 | 25.32 | 1048 | 5875 | 0.0759 |
| Lilac | 795 | 402.84 | 61/2.90 | 26.11 | 1111 | 6345 | 0.0715 |
| Arbutus | 795 | 402.84 | 37/3.724 | 26.06 | 1111 | 6232 | 0.0715 |
| Snapdragon | 900 | 456.06 | 61/3.086 | 27.78 | 1257 | 6978 | 0.0632 |
| Cockscomb | 900 | 456.06 | 37/3.962 | 27.73 | 1257 | 6848 | 0.0632 |
| Goldenrod | 954 | 483.42 | 61/3.177 | 28.6 | 1333 | 7896 | 0.0596 |
| Magnolia | 954 | 483.42 | 37/4.079 | 28.55 | 1333 | 7258 | 0.0596 |
| Camellia | 1000 | 506.71 | 61/3.251 | 29.36 | 1397 | 7753 | 0.0569 |
| Hawkweed | 1000 | 506.71 | 37/4.176 | 29.23 | 1397 | 7608 | 0.0569 |
| Larkspur | 1033.5 | 523.68 | 61/3.307 | 29.76 | 1444 | 8012 | 0.0550 |
| Bluebell | 1033.5 | 523.68 | 37/4.244 | 29.72 | 1444 | 7863 | 0.0550 |
| Marigold | 1113 | 563.93 | 61/3.432 | 30.89 | 1555 | 8628 | 0.0511 |
| Hawthorn | 1192.5 | 604.26 | 61/3.551 | 31.05 | 1666 | 9245 | 0.0477 |
| Narcissus | 1272 | 644.51 | 61/3.668 | 33.02 | 1777 | 9861 | 0.0477 |
| Columbine | 1351.5 | 684.84 | 61/3.78 | 34.01 | 1888 | 10478 | 0.0421 |
| Carnation | 1431 | 725.10 | 61/3.89 | 35.03 | 1999 | 10768 | 0.0398 |
| Gladiolus | 1510.5 | 765.35 | 61/4.00 | 35.09 | 2110 | 11365 | 0.0376 |
| Coreopsis | 1590 | 805.68 | 61/4.099 | 36.51 | 2221 | 11964 | 0.0358 |
| Jessamine | 1750 | 886.71 | 61/4.302 | 38.72 | 2445 | 13168 | 0.0325 |
| Cowslip | 2000 | 1013.42 | 91/3.76 | 41.40 | 2791 | 15300 | 0.0285 |
| Lupine | 2500 | 1266.67 | 91/4.21 | 46.30 | 3524 | 18700 | 0.0230 |
| Trillium | 3000 | 1520.13 | 127/3.90 | 50.75 | 4232 | 22500 | 0.0192 |
| Bluebonnet | 3500 | 1773.50 | 127/4.21 | 54.80 | 4985 | 26200 | 0.0166 |

ALL ALUMINIUM STRANDED CONDUCTOR
 AAC

BS 215 Part 1

| Code Name | Nominal Aluminum Area | Stranding and Wire Diameter | Sectional Area | Overall Diameter | Linear Mass | Max. D.C. Resistance at 20°C | Calculated Breaking Load | Final Modulus of Elasticity | Coefficient of Linear Expansion |
|-------------|-----------------------|-----------------------------|----------------|------------------|-------------|------------------------------|--------------------------|-----------------------------|---------------------------------|
| | mm ² | | | | | | | | |
| Midge | 22 | 7/2.06 | 23.33 | 6.18 | 64 | 1.227 | 399 | 5900 | 23×10 ⁻⁶ |
| Aphis | 25 | 3/3.35 | 26.40 | 7.2 | 73 | 1.081 | 411 | 5900 | 23×10 ⁻⁶ |
| Gnat | 25 | 7/2.21 | 26.8 | 6.6 | 73 | 1.066 | 459 | 5900 | 23×10 ⁻⁶ |
| Weevil | 30 | 3/3.66 | 31.6 | 7.9 | 86 | 0.9082 | 486 | 5900 | 23×10 ⁻⁶ |
| Mosquito | 35 | 7/2.59 | 37.0 | 7.8 | 101 | 0.7762 | 603 | 5900 | 23×10 ⁻⁶ |
| Ladybird | 40 | 7/2.79 | 42.8 | 8.4 | 117 | 0.6689 | 687 | 5900 | 23×10 ⁻⁶ |
| Ant | 50 | 7/3.10 | 52.83 | 9.30 | 145 | 0.5419 | 828 | 5900 | 23×10 ⁻⁶ |
| Fly | 60 | 7/3.40 | 63.55 | 10.20 | 174 | 0.4505 | 990 | 5900 | 23×10 ⁻⁶ |
| Bluebottle | 70 | 7/3.66 | 73.7 | 11.0 | 202 | 0.3881 | 1134 | 5900 | 23×10 ⁻⁶ |
| Earwing | 75 | 7/3.78 | 78.5 | 11.4 | 215 | 0.3644 | 1194 | 5900 | 23×10 ⁻⁶ |
| Grasshopper | 80 | 7/3.91 | 84.1 | 11.7 | 230 | 0.3406 | 1278 | 5900 | 23×10 ⁻⁶ |
| Clegg | 90 | 7/4.17 | 95.6 | 12.5 | 262 | 0.2994 | 1453 | 5900 | 23×10 ⁻⁶ |
| Wasp | 100 | 7/4.39 | 106.0 | 13.17 | 290 | 0.2702 | 1600 | 5900 | 23×10 ⁻⁶ |
| Beetle | 100 | 19/2.67 | 106.0 | 13.4 | 293 | 0.2704 | 1742 | 5600 | 23×10 ⁻⁶ |
| Bee | 125 | 7/4.90 | 132.0 | 14.7 | 361 | 0.2169 | 1944 | 5900 | 23×10 ⁻⁶ |
| Cricket | 150 | 7/5.36 | 157.9 | 16.1 | 432 | 0.1818 | 2385 | 5900 | 23×10 ⁻⁶ |
| Hornet | 150 | 19/3.25 | 157.6 | 16.25 | 434 | 0.1825 | 2570 | 5600 | 23×10 ⁻⁶ |
| Caterpillar | 175 | 19/3.53 | 186 | 17.7 | 512 | 0.1547 | 2863 | 5600 | 23×10 ⁻⁶ |
| Chater | 200 | 19/3.78 | 213.2 | 18.9 | 587 | 0.1349 | 3240 | 5600 | 23×10 ⁻⁶ |
| Spider | 225 | 19/3.99 | 236.9 | 20.0 | 652 | 0.1211 | 3601 | 5600 | 23×10 ⁻⁶ |
| Cockroach | 250 | 19/4.22 | 265.7 | 21.10 | 731 | 0.1083 | 4040 | 5600 | 23×10 ⁻⁶ |
| Butterfly | 300 | 19/4.65 | 322.7 | 23.25 | 888 | 0.08916 | 4875 | 5600 | 23×10 ⁻⁶ |
| Moth | 350 | 19/5.00 | 373.2 | 25.0 | 1027 | 0.07711 | 5637 | 5600 | 23×10 ⁻⁶ |
| Drone | 350 | 37/3.58 | 373.3 | 25.1 | 1029 | 0.07741 | 5745 | 5600 | 23×10 ⁻⁶ |
| Locust | 400 | 19/5.36 | 428.5 | 26.8 | 1179 | 0.06710 | 6473 | 5600 | 23×10 ⁻⁶ |
| Centipede | 400 | 37/3.78 | 415.2 | 26.46 | 1145 | 0.06944 | 6310 | 5600 | 23×10 ⁻⁶ |
| Maybug | 450 | 37/4.09 | 486.9 | 28.6 | 1342 | 0.05931 | 7401 | 5600 | 23×10 ⁻⁶ |
| Scorpion | 500 | 37/4.27 | 529.5 | 29.9 | 1460 | 0.05441 | 7998 | 5600 | 23×10 ⁻⁶ |
| Cicada | 600 | 37/4.65 | 628.6 | 32.6 | 1733 | 0.04588 | 9495 | 5600 | 23×10 ⁻⁶ |
| Tarantula | 750 | 37/5.23 | 794.6 | 36.6 | 2191 | 0.03627 | 12010 | 5600 | 23×10 ⁻⁶ |

 ALL ALUMINIUM STRANDED CONDUCTOR
 ASC

CSA C49

| Code Name | KCMIL or AWG | Aluminium Area | Size | | | Total Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------|--------------|-----------------|--------------|-----------|----------------|------------|------------------------|------------------------------|
| | | | No. of Wires | Wire Dia. | Conductor Dia. | | | |
| | | mm ² | | mm | mm | kg/km | kN | Ω/km |
| Peachbell | 6 | 13.30 | 7 | 1.56 | 4.68 | 36.4 | 2.6 | 2.154 |
| Rose | 4 | 21.51 | 7 | 1.96 | 5.88 | 58.0 | 4.1 | 1.354 |
| Lily | 3 | 26.66 | 7 | 2.20 | 6.60 | 73.1 | 5.1 | 1.074 |
| Iris | 2 | 33.63 | 7 | 2.47 | 7.41 | 92.1 | 6.2 | 0.8516 |
| Pansy | 1 | 42.41 | 7 | 2.78 | 8.34 | 116.2 | 7.4 | 0.6752 |
| Poppy | 1/0 | 53.51 | 7 | 3.12 | 9.36 | 146.6 | 9.1 | 0.5351 |
| Aster | 2/0 | 67.44 | 7 | 3.50 | 10.50 | 184.8 | 11.4 | 0.4246 |
| Phlox | 3/0 | 85.03 | 7 | 3.93 | 11.78 | 233.0 | 14.0 | 0.3368 |
| Oxlip | 4/0 | 107.22 | 7 | 4.42 | 13.26 | 294 | 17.7 | 0.2671 |
| Valerian | 250 | 126.68 | 19 | 2.91 | 14.55 | 349 | 22.1 | 0.2271 |
| Daisy | 266.8 | 135.19 | 7 | 4.96 | 14.88 | 370 | 22.3 | 0.2118 |
| Laurel | 266.8 | 135.19 | 19 | 3.01 | 15.05 | 372 | 23.0 | 0.2128 |
| Peony | 300 | 152.01 | 19 | 3.19 | 15.95 | 419 | 25.8 | 0.1893 |
| Tulip | 336.4 | 170.46 | 19 | 3.38 | 16.90 | 469 | 29.0 | 0.1688 |
| Daffodil | 350 | 177.35 | 19 | 3.45 | 17.25 | 488 | 30.2 | 0.1622 |
| Canna | 397.5 | 201.42 | 19 | 3.67 | 18.35 | 555 | 34.2 | 0.1429 |
| - | 400 | 202.68 | 19 | 3.69 | 18.45 | 558 | 34.5 | 0.1420 |
| Goldentuft | 450 | 228.02 | 19 | 3.91 | 19.55 | 628 | 37.6 | 0.1262 |
| Cosmos | 477 | 241.70 | 19 | 4.02 | 20.10 | 666 | 39.8 | 0.1190 |
| Zinnia | 500 | 253.36 | 19 | 4.12 | 20.60 | 698 | 41.8 | 0.1136 |
| - | 550 | 278.69 | 37 | 3.10 | 21.70 | 769 | 47.5 | 0.1035 |
| Dahlia | 556.5 | 281.98 | 19 | 4.35 | 21.75 | 776 | 46.6 | 0.1020 |
| Meadowsweet | 600 | 304.03 | 37 | 3.23 | 22.61 | 839 | 51.5 | 0.09486 |
| Orchid | 636 | 322.27 | 37 | 3.33 | 23.31 | 890 | 54.8 | 0.08949 |
| Heuchera | 650 | 329.36 | 37 | 3.37 | 23.59 | 909 | 56.1 | 0.08757 |
| Verbena | 700 | 354.70 | 37 | 3.49 | 24.43 | 979 | 60.2 | 0.08131 |
| Violet | 715.5 | 362.55 | 37 | 3.53 | 24.71 | 1001 | 61.6 | 0.07955 |
| Petunia | 750 | 380.03 | 37 | 3.62 | 25.34 | 1049 | 64.7 | 0.07589 |
| Arbutus | 795 | 402.83 | 37 | 3.72 | 26.04 | 1112 | 68.4 | 0.07160 |
| - | 800 | 405.37 | 37 | 3.73 | 26.11 | 1119 | 68.7 | 0.07115 |

ALL ALUMINIUM STRANDED CONDUCTOR
ASC

CSA C49

| Code Name | KCMIL or AWG | Aluminium Area mm ² | Size | | | Total Mass kg/km | Rated Tensile Strength kN | Max. D.C. Resistance at 20°C Ω/km |
|------------|--------------|-----------------------------------|--------------|-----------------|----------------------|---------------------|------------------------------|--------------------------------------|
| | | | No. of Wires | Wire Dia. mm | Conductor Dia. mm | | | |
| Anemone | 874.5 | 443.12 | 37 | 3.90 | 27.30 | 1223 | 72.9 | 0.06509 |
| Cockscomb | 900 | 456.04 | 37 | 3.96 | 27.72 | 1259 | 75.2 | 0.06324 |
| - | 927.2 | 469.82 | 37 | 4.02 | 28.14 | 1297 | 77.5 | 0.06139 |
| Magnolia | 954 | 483.40 | 37 | 4.08 | 28.56 | 1334 | 79.8 | 0.05966 |
| Hawkweed | 1000 | 506.71 | 37 | 4.18 | 29.26 | 1399 | 83.8 | 0.05692 |
| Bluebell | 1033.5 | 523.68 | 37 | 4.25 | 29.75 | 1445 | 86.6 | 0.05507 |
| - | 1100 | 557.38 | 61 | 3.41 | 30.69 | 1541 | 94.7 | 0.05182 |
| Marigold | 1113 | 563.97 | 61 | 3.43 | 30.87 | 1559 | 95.8 | 0.05121 |
| Hawthorn | 1192.5 | 604.25 | 61 | 3.55 | 31.95 | 1670 | 103 | 0.04780 |
| - | 1200 | 608.05 | 61 | 3.56 | 32.04 | 1681 | 103 | 0.04750 |
| Narcissus | 1272 | 644.54 | 61 | 3.67 | 33.03 | 1782 | 110 | 0.04481 |
| - | 1300 | 658.72 | 61 | 3.71 | 33.39 | 1821 | 112 | 0.04385 |
| Columbine | 1351.5 | 684.82 | 61 | 3.78 | 34.02 | 1893 | 113 | 0.04218 |
| - | 1400 | 709.39 | 61 | 3.85 | 34.65 | 1961 | 117 | 0.04072 |
| Carnation | 1431 | 725.10 | 61 | 3.89 | 35.01 | 2004 | 120 | 0.03983 |
| - | 1500 | 760.07 | 61 | 3.98 | 35.82 | 2101 | 125 | 0.03800 |
| Gladiolus | 1510.5 | 765.39 | 61 | 4.00 | 36.00 | 2116 | 126 | 0.03774 |
| Coreopsis | 1590 | 805.67 | 61 | 4.10 | 36.90 | 2227 | 133 | 0.03585 |
| - | 1600 | 810.74 | 61 | 4.11 | 36.99 | 2241 | 134 | 0.03563 |
| - | 1700 | 861.41 | 61 | 4.24 | 38.16 | 2381 | 142 | 0.03353 |
| - | 1800 | 912.08 | 91 | 3.57 | 39.27 | 2524 | 155 | 0.03170 |
| Cowslip | 2000 | 1013.42 | 91 | 3.77 | 41.47 | 2804 | 168 | 0.02853 |
| Sagebrush | 2250 | 1140.10 | 91 | 3.99 | 43.89 | 3155 | 188 | 0.02536 |
| - | 2435.6 | 1234.14 | 91 | 4.16 | 45.76 | 3415 | 204 | 0.02343 |
| Lupine | 2500 | 1266.78 | 91 | 4.21 | 46.31 | 3505 | 209 | 0.02283 |
| Bitterroot | 2750 | 1393.45 | 91 | 4.42 | 48.62 | 3856 | 230 | 0.02075 |
| - | 3000 | 1520.13 | 91 | 4.61 | 50.71 | 4207 | 251 | 0.01902 |
| - | 3007.7 | 1524.03 | 91 | 4.62 | 50.82 | 4217 | 252 | 0.01897 |
| - | 3500 | 1773.49 | 91 | 4.98 | 54.78 | 4908 | 292 | 0.01630 |
| - | 3640 | 1844.42 | 91 | 5.08 | 55.88 | 5104 | 304 | 0.01568 |

ALL ALUMINIUM STRANDED CONDUCTOR
AAC

DIN 48201

| Code Number | Calculated Area | Stranding and Wire Diameter | Overall Diameter | Linear Mass | Calculated Breaking Load | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------------------|------------------|-------------|--------------------------|------------------------------|
| mm ² | mm ² | mm | mm | kg/km | daN | Ω/km |
| 16 | 15.89 | 7/1.70 | 5.1 | 44 | 290 | 1.8018 |
| 25 | 24.25 | 7/2.10 | 6.3 | 67 | 425 | 1.1808 |
| 35 | 34.36 | 7/2.50 | 7.5 | 94 | 585 | 0.8332 |
| 50 | 49.48 | 7/3.00 | 9.0 | 135 | 810 | 0.5786 |
| 50 | 48.36 | 19/1.80 | 9.0 | 133 | 860 | 0.5950 |
| 70 | 65.82 | 19/2.10 | 10.5 | 181 | 1150 | 0.4371 |
| 95 | 93.27 | 19/2.50 | 12.5 | 256 | 1595 | 0.3084 |
| 120 | 117.00 | 19/2.80 | 14.0 | 322 | 1910 | 0.2459 |
| 150 | 147.10 | 37/2.25 | 15.2 | 406 | 2570 | 0.1960 |
| 185 | 181.60 | 37/2.50 | 17.5 | 501 | 3105 | 0.1587 |
| 240 | 242.54 | 61/2.25 | 20.2 | 670 | 4015 | 0.1191 |
| 300 | 299.43 | 61/2.50 | 22.5 | 827 | 4850 | 0.09650 |
| 400 | 400.14 | 61/2.89 | 26.0 | 1105 | 6190 | 0.07221 |
| 500 | 499.83 | 61/3.23 | 29.1 | 1381 | 7600 | 0.05781 |
| 625 | 626.20 | 91/2.96 | 32.6 | 1733 | 9690 | 0.04625 |
| 800 | 802.10 | 91/3.35 | 36.8 | 2219 | 12055 | 0.03611 |
| 1000 | 999.71 | 91/3.74 | 41.1 | 2766 | 14845 | 0.02897 |



ALL ALUMINIUM STRANDED CONDUCTOR
 AAC

IEC 61089

| Code Number | Area | Number of Wires | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-------------|-----------------|-----------------|----------|-------|-------------|----------------|------------------------------|
| | | | Wire | Cond. | | | |
| | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 10 | 10 | 7 | 1.35 | 4.05 | 27.4 | 1.95 | 2.8633 |
| 16 | 16 | 7 | 1.71 | 5.12 | 43.8 | 3.04 | 1.7896 |
| 25 | 25 | 7 | 2.13 | 6.40 | 68.4 | 4.50 | 1.1453 |
| 40 | 40 | 7 | 2.70 | 8.09 | 109.4 | 6.80 | 0.7158 |
| 63 | 63 | 7 | 3.39 | 10.2 | 172.3 | 10.39 | 0.4545 |
| 100 | 100 | 19 | 2.59 | 12.9 | 274.8 | 17.00 | 0.2877 |
| 125 | 125 | 19 | 2.89 | 14.5 | 343.6 | 21.25 | 0.2302 |
| 160 | 160 | 19 | 3.27 | 16.4 | 439.8 | 26.40 | 0.1798 |
| 200 | 200 | 19 | 3.66 | 18.3 | 549.7 | 32.00 | 0.1439 |
| 250 | 250 | 19 | 4.09 | 20.5 | 687.1 | 40.00 | 0.1151 |
| 315 | 315 | 37 | 3.29 | 23.0 | 867.9 | 51.97 | 0.0916 |
| 400 | 400 | 37 | 3.71 | 26.0 | 1102.0 | 64.00 | 0.0721 |
| 450 | 450 | 37 | 3.94 | 27.5 | 1239.8 | 72.00 | 0.0641 |
| 500 | 500 | 37 | 4.15 | 29.0 | 1377.6 | 80.00 | 0.0577 |
| 560 | 560 | 37 | 4.39 | 30.7 | 1542.9 | 89.60 | 0.0515 |
| 630 | 630 | 61 | 3.63 | 32.6 | 1738.3 | 100.80 | 0.0458 |
| 710 | 710 | 61 | 3.85 | 34.6 | 1959.1 | 113.60 | 0.0407 |
| 800 | 800 | 61 | 4.09 | 36.8 | 2207.4 | 128.00 | 0.0361 |
| 900 | 900 | 61 | 4.33 | 39.0 | 2483.3 | 144.00 | 0.0321 |
| 1000 | 1000 | 61 | 4.57 | 41.1 | 2759.2 | 160.00 | 0.0289 |
| 1120 | 1120 | 91 | 3.96 | 43.5 | 3093.5 | 179.20 | 0.0258 |
| 1250 | 1250 | 91 | 4.18 | 46.0 | 3452.6 | 200.00 | 0.0231 |
| 1400 | 1400 | 91 | 4.43 | 48.7 | 3866.9 | 224.00 | 0.0207 |
| 1500 | 1500 | 91 | 4.58 | 50.4 | 4143.1 | 240.00 | 0.0193 |

 ALL ALUMINIUM ALLOY CONDUCTOR
 AAAC (JLHA1)

Chinese Standard GB/T 1179-2008

| Nominal Area | Code Number | Calculated Area | Number of Wires | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-------------|-----------------|-----------------|----------|-------|-------------|----------------|------------------------------|
| | | | | Wire | Cond. | | | |
| mm ² | | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 20 | 16 | 18.6 | 7 | 1.84 | 5.52 | 50.8 | 6.04 | 1.7896 |
| 30 | 25 | 29.0 | 7 | 2.30 | 6.90 | 79.5 | 9.44 | 1.1453 |
| 45 | 40 | 46.5 | 7 | 2.91 | 8.72 | 127.1 | 15.10 | 0.7158 |
| 75 | 63 | 73.2 | 7 | 3.65 | 10.9 | 200.2 | 23.06 | 0.4545 |
| 120 | 100 | 116 | 19 | 2.79 | 14.0 | 319.3 | 37.76 | 0.2877 |
| 145 | 125 | 145 | 19 | 3.12 | 15.6 | 399.2 | 47.20 | 0.2302 |
| 185 | 160 | 186 | 19 | 3.53 | 17.6 | 511.0 | 58.56 | 0.1798 |
| 230 | 200 | 232 | 19 | 3.95 | 19.7 | 638.7 | 73.20 | 0.1439 |
| 300 | 250 | 290 | 19 | 4.41 | 22.1 | 798.4 | 91.50 | 0.1151 |
| 360 | 315 | 366 | 37 | 3.55 | 24.8 | 1008.4 | 115.29 | 0.0916 |
| 465 | 400 | 465 | 37 | 4.00 | 28.0 | 1280.5 | 146.40 | 0.0721 |
| 520 | 450 | 523 | 37 | 4.24 | 29.7 | 1440.5 | 164.70 | 0.0641 |
| 580 | 500 | 581 | 37 | 4.47 | 31.3 | 1600.6 | 183.00 | 0.0577 |
| 650 | 560 | 651 | 61 | 3.69 | 33.2 | 1795.3 | 204.96 | 0.0516 |
| 720 | 630 | 732 | 61 | 3.91 | 35.2 | 2019.8 | 230.58 | 0.0458 |
| 825 | 710 | 825 | 61 | 4.15 | 37.3 | 2276.2 | 259.86 | 0.0407 |
| 930 | 800 | 930 | 61 | 4.40 | 39.6 | 2564.8 | 292.80 | 0.0361 |
| 1050 | 900 | 1046 | 91 | 3.83 | 42.1 | 2888.3 | 329.40 | 0.0321 |
| 1150 | 1000 | 1162 | 91 | 4.03 | 44.4 | 3209.3 | 366.00 | 0.0289 |
| 1300 | 1120 | 1301 | 91 | 4.27 | 46.9 | 3594.4 | 409.92 | 0.0258 |

**6201 ALUMINIUM ALLOY CONDUCTOR
AAAC**

ASTM B399

| Code Name | Area | | Size & Stranding of ACSR With Equal Diameter | | No. and Diameter of Wires | Overall Diameter | Weight | Nominal Breaking Load | Standard Length |
|-----------|---------|-----------------|---|----------|---------------------------------|---------------------|--------|-----------------------------|--------------------|
| | Nominal | Actual | AWG or MCM | Al/Steel | | | | | |
| | MCM | mm ² | | | mm | kg/km | kN | m±5% | |
| Akron | 30.58 | 15.48 | 6 | 6/1 | 7/1.68 | 5.04 | 42.7 | 4.92 | 3000 |
| Alton | 48.69 | 24.71 | 4 | 6/1 | 7/2.12 | 6.35 | 68.0 | 7.84 | 3000 |
| Ames | 77.47 | 39.22 | 2 | 6/1 | 7/2.67 | 8.02 | 108 | 12.45 | 2000 |
| Azusa | 123.3 | 62.38 | 1/0 | 6/1 | 7/3.37 | 10.11 | 172 | 18.97 | 2000 |
| Anaheim | 155.4 | 78.65 | 2/0 | 6/1 | 7/3.78 | 11.35 | 217 | 23.93 | 3000 |
| Amherst | 195.7 | 99.22 | 3/0 | 6/1 | 7/4.25 | 12.75 | 273 | 30.18 | 2500 |
| Alliance | 246.9 | 125.1 | 4/0 | 6/1 | 7/4.77 | 14.31 | 345 | 38.05 | 2000 |
| Butte | 312.8 | 158.6 | 266.8 | 26/7 | 19/3.26 | 16.30 | 437 | 48.76 | 3000 |
| Canton | 394.5 | 199.9 | 336.4 | 26/7 | 19/3.66 | 18.30 | 551 | 58.91 | 2500 |
| Cairo | 465.4 | 235.8 | 397.5 | 26/7 | 19/3.98 | 19.88 | 650 | 69.48 | 2000 |
| Darien | 559.5 | 283.5 | 477 | 26/7 | 19/4.36 | 21.79 | 781 | 83.52 | 2000 |
| Elgin | 652.4 | 330.6 | 556.5 | 26/7 | 19/4.71 | 23.54 | 911 | 97.42 | 1500 |
| Flint | 740.8 | 375.3 | 636 | 26/7 | 37/3.59 | 25.16 | 1035 | 108.21 | 3000 |
| Greely | 927.2 | 469.8 | 795 | 26/7 | 37/4.02 | 28.14 | 1295 | 135.47 | 2500 |

**ALL ALUMINIUM ALLOY CONDUCTOR
AAAC**

ASTM B399

| Area | Stranding and Wire Diameter | Approx Overall Diameter | Weight | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length | |
|------------|--------------------------------|----------------------------|--------|-----------------------------|------------------------------------|--------------------|---------|
| | | | | | | | Nominal |
| AWG or MCM | mm ² | mm | kg/km | kN | Ω/km | m ± 5% | |
| 6 | 13.30 | 7/1.554 | 4.67 | 37 | 4.22 | 2.5199 | 3500 |
| 4 | 21.15 | 7/1.961 | 5.89 | 58 | 6.71 | 1.5824 | 3000 |
| 2 | 33.63 | 7/2.474 | 7.42 | 93 | 10.68 | 0.9942 | 2500 |
| 1/0 | 53.48 | 7/3.119 | 9.36 | 148 | 16.97 | 0.6256 | 2000 |
| 2/0 | 67.42 | 7/3.503 | 10.51 | 186 | 20.52 | 0.4959 | 3500 |
| 3/0 | 85.03 | 7/3.932 | 11.80 | 234 | 25.86 | 0.3936 | 3000 |
| 4/0 | 107.23 | 7/4.417 | 13.26 | 296 | 32.63 | 0.3119 | 2000 |
| 250 | 126.66 | 19/2.913 | 14.57 | 349 | 38.93 | 0.2642 | 2000 |
| 300 | 152.10 | 19/3.193 | 15.97 | 419 | 46.77 | 0.2199 | 3000 |
| 350 | 177.35 | 19/3.447 | 17.24 | 489 | 52.25 | 0.1887 | 3000 |
| 400 | 202.71 | 19/3.686 | 18.43 | 559 | 59.74 | 0.1650 | 2500 |
| 450 | 228.00 | 19/3.909 | 19.55 | 629 | 67.19 | 0.1467 | 2000 |
| 500 | 253.35 | 19/4.120 | 20.60 | 698 | 74.64 | 0.1321 | 2000 |
| 550 | 278.60 | 37/3.096 | 21.67 | 768 | 83.80 | 0.1202 | 2000 |
| 600 | 303.80 | 37/3.233 | 22.63 | 838 | 91.38 | 0.1102 | 2000 |
| 650 | 329.25 | 37/3.366 | 23.56 | 908 | 97.94 | 0.1016 | 2000 |
| 700 | 354.55 | 37/3.493 | 24.45 | 978 | 102.20 | 0.0944 | 3500 |
| 750 | 380.20 | 37/3.617 | 25.32 | 1049 | 109.60 | 0.0880 | 3000 |
| 800 | 405.15 | 37/3.734 | 26.14 | 1117 | 116.80 | 0.0826 | 3000 |
| 900 | 456.16 | 37/3.962 | 27.73 | 1258 | 131.50 | 0.0733 | 3000 |
| 1000 | 506.71 | 37/4.176 | 29.23 | 1399 | 146.10 | 0.0660 | 2500 |

**ALL ALUMINIUM ALLOY CONDUCTOR
AAAC**

BS EN50183

| Code Name | Calculated Area | No. of Wires | Diameter | | Weight | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------|--------------------|--------------|----------|-------|--------|-------------------|------------------------------------|
| | | | Wire | Cond. | | | |
| | mm ² | | mm | mm | kg/km | kN | Ω/km |
| Box | 18.8 | 7 | 1.85 | 5.55 | 51.4 | 5.55 | 1.7480 |
| Acacia | 23.8 | 7 | 2.08 | 6.24 | 64.9 | 7.02 | 1.3828 |
| Almond | 30.1 | 7 | 2.34 | 7.02 | 82.2 | 8.88 | 1.0926 |
| Cedar | 35.5 | 7 | 2.54 | 7.62 | 96.8 | 10.46 | 0.9273 |
| Deodar | 42.2 | 7 | 2.77 | 8.31 | 115.2 | 12.44 | 0.7797 |
| Fir | 47.8 | 7 | 2.95 | 8.85 | 130.6 | 14.11 | 0.6875 |
| Hazel | 59.9 | 7 | 3.30 | 9.90 | 163.4 | 17.66 | 0.5494 |
| Pine | 71.6 | 7 | 3.61 | 10.8 | 195.6 | 21.14 | 0.4591 |
| Holly | 84.1 | 7 | 3.91 | 11.7 | 229.5 | 24.79 | 0.3913 |
| Willow | 89.7 | 7 | 4.04 | 12.1 | 245.0 | 26.47 | 0.3665 |
| Oak | 118.9 | 7 | 4.65 | 14.0 | 324.5 | 35.07 | 0.2767 |
| Mulberry | 150.9 | 19 | 3.18 | 15.9 | 414.3 | 44.52 | 0.2192 |
| Ash | 180.7 | 19 | 3.48 | 17.4 | 496.1 | 53.31 | 0.1830 |
| Elm | 211.0 | 19 | 3.76 | 18.8 | 579.2 | 62.24 | 0.1568 |
| Poplar | 239.4 | 37 | 2.87 | 20.1 | 659.4 | 70.61 | 0.1387 |
| Sycamore | 303.2 | 37 | 3.23 | 22.6 | 835.2 | 89.40 | 0.1095 |
| Upas | 362.1 | 37 | 3.53 | 24.7 | 997.5 | 106.82 | 0.0917 |
| Yew | 479.0 | 37 | 4.06 | 28.4 | 1319.6 | 141.31 | 0.0693 |
| Totara | 498.1 | 37 | 4.14 | 29.0 | 1372.1 | 146.93 | 0.0666 |
| Rubus | 586.9 | 61 | 3.50 | 31.5 | 1622.0 | 173.13 | 0.0567 |
| Sorbus | 659.4 | 61 | 3.71 | 33.4 | 1822.5 | 194.53 | 0.0505 |
| Araucaria | 821.1 | 61 | 4.14 | 37.3 | 2269.4 | 242.24 | 0.0406 |
| Redwood | 996.2 | 61 | 4.56 | 41.0 | 2753.2 | 293.88 | 0.0334 |

ALL ALUMINIUM ALLOY CONDUCTOR
 AAAC

BS 3242

| Code Name | Nominal Area | Stranding | Sectional Area | Diameter of Conductor | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------|-----------------|-----------|-----------------|-----------------------|-------------|----------------|------------------------------|
| | mm ² | No./mm | mm ² | mm | kg/km | kgf | Ω/km |
| Box | 15 | 7/1.85 | 18.82 | 5.55 | 51 | 537 | 1.7495 |
| Acacia | 20 | 7/2.08 | 23.79 | 6.24 | 65 | 680 | 1.3840 |
| Almond | 25 | 7/2.34 | 30.10 | 7.02 | 82 | 861 | 1.0934 |
| Cedar | 30 | 7/2.54 | 35.47 | 7.62 | 97 | 1014 | 0.9281 |
| - | 35 | 7/2.77 | 42.18 | 8.31 | 115 | 1205 | 0.7804 |
| Fir | 40 | 7/2.95 | 47.87 | 8.85 | 131 | 1367 | 0.6880 |
| Hazel | 50 | 7/3.30 | 59.87 | 9.9 | 164 | 1711 | 0.5498 |
| Pine | 60 | 7/3.61 | 71.65 | 10.83 | 196 | 2048 | 0.4594 |
| - | 70 | 7/3.91 | 84.05 | 11.73 | 230 | 2402 | 0.3917 |
| Willow | 75 | 7/4.04 | 89.73 | 12.12 | 245 | 2565 | 0.3669 |
| - | 80 | 7/4.19 | 96.52 | 12.57 | 264 | 2758 | 0.3441 |
| - | 90 | 7/4.44 | 108.00 | 13.32 | 298 | 3112 | 0.3023 |
| Oak | 100 | 7/4.65 | 118.90 | 13.95 | 325 | 3398 | 0.2769 |
| - | 100 | 19/2.82 | 118.70 | 14.1 | 326 | 3393 | 0.2787 |
| Mulberry | 125 | 19/3.18 | 150.90 | 15.9 | 415 | 4312 | 0.2192 |
| Ash | 150 | 19/3.48 | 180.70 | 17.4 | 497 | 5164 | 0.1831 |
| Elm | 175 | 19/3.76 | 211.00 | 18.8 | 580 | 6030 | 0.1568 |
| Poplar | 200 | 37/2.87 | 239.40 | 20.09 | 659 | 8841 | 0.1385 |
| - | 225 | 37/3.05 | 270.30 | 21.35 | 744 | 7724 | 0.1227 |
| Sycamore | 250 | 37/3.22 | 303.20 | 22.54 | 835 | 8664 | 0.1093 |
| Upas | 300 | 37/3.53 | 362.10 | 24.71 | 997 | 10350 | 0.09156 |
| Walnut | 350 | 37/3.81 | 421.80 | 26.67 | 1162 | 12053 | 0.07860 |
| Yew | 400 | 37/4.06 | 479.00 | 28.42 | 1319 | 13685 | 0.06921 |
| Totara | 425 | 37/4.14 | 498.10 | 28.98 | 1372 | 14233 | 0.06656 |
| Rubus | 500 | 61/3.50 | 586.90 | 31.5 | 1620 | 16771 | 0.05662 |
| Araucaria | 700 | 61/4.14 | 821.10 | 37.26 | 2266 | 23450 | 0.04047 |

 ALL ALUMINIUM ALLOY CONDUCTOR
 AAAC

DIN 48201

| Code Number | Calculated Area | Number of Wires | Diameter of Wire | Overall Diameter of Conductor | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------|-----------------|-----------------|------------------|-------------------------------|-------------|------------------------|------------------------------|
| | mm ² | | mm | mm | kg/km | daN | Ω/km |
| 16 | 15.89 | 7 | 1.70 | 5.1 | 43 | 444 | 2.0910 |
| 25 | 24.25 | 7 | 2.10 | 6.3 | 66 | 677 | 1.3703 |
| 35 | 34.36 | 7 | 2.50 | 7.5 | 94 | 960 | 0.9669 |
| 50 | 49.48 | 7 | 3.00 | 9.0 | 135 | 1382 | 0.6714 |
| 50 | 48.35 | 19 | 1.80 | 9.0 | 133 | 1350 | 0.6905 |
| 70 | 65.81 | 19 | 2.10 | 10.5 | 181 | 1838 | 0.5073 |
| 95 | 93.27 | 19 | 2.50 | 12.5 | 256 | 2605 | 0.3579 |
| 120 | 116.99 | 19 | 2.80 | 14.0 | 322 | 3268 | 0.2854 |
| 150 | 147.11 | 37 | 2.25 | 15.8 | 406 | 4109 | 0.2274 |
| 185 | 181.62 | 37 | 2.50 | 17.5 | 500 | 5073 | 0.1842 |
| 240 | 242.54 | 61 | 2.25 | 20.3 | 670 | 6774 | 0.1383 |
| 300 | 299.43 | 61 | 2.50 | 22.5 | 827 | 8363 | 0.1120 |
| 400 | 400.14 | 61 | 2.89 | 26.0 | 1104 | 11176 | 0.0838 |
| 500 | 499.63 | 61 | 3.23 | 29.1 | 1379 | 13960 | 0.06709 |
| 625 | 626.20 | 91 | 2.96 | 32.6 | 1732 | 17490 | 0.0540 |
| 800 | 802.09 | 91 | 3.35 | 36.9 | 2218 | 22402 | 0.0418 |
| 1000 | 999.71 | 91 | 3.74 | 41.1 | 2767 | 27922 | 0.0335 |

ALL ALUMINIUM ALLOY CONDUCTOR
AAAC (Characteristics of A2 Conductors)

IEC 61089

| Code Number | Calculated Area | Number of Wires | Diameter of Wire | Diameter of Cond. | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|------------------|-------------------|-------------|----------------|------------------------------|
| mm ² | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.4 | 7 | 1.83 | 5.49 | 50.4 | 5.43 | 1.7896 |
| 25 | 28.8 | 7 | 2.29 | 6.87 | 78.7 | 8.49 | 1.1453 |
| 40 | 46.0 | 7 | 2.89 | 8.67 | 125.9 | 13.58 | 0.7158 |
| 63 | 72.5 | 7 | 3.63 | 10.8 | 198.3 | 21.39 | 0.4545 |
| 100 | 115 | 19 | 2.78 | 13.9 | 316.3 | 33.95 | 0.2877 |
| 125 | 144 | 19 | 3.10 | 15.5 | 395.4 | 42.44 | 0.2302 |
| 160 | 184 | 19 | 3.51 | 17.55 | 506.1 | 54.32 | 0.1798 |
| 200 | 230 | 19 | 3.93 | 19.65 | 632.7 | 67.91 | 0.1439 |
| 250 | 288 | 19 | 4.39 | 21.95 | 790.8 | 84.68 | 0.1151 |
| 315 | 363 | 37 | 3.53 | 24.71 | 998.9 | 106.95 | 0.0916 |
| 400 | 460 | 37 | 3.98 | 27.86 | 1268.4 | 135.81 | 0.0721 |
| 450 | 518 | 37 | 4.22 | 29.54 | 1426.9 | 152.79 | 0.0641 |
| 500 | 575 | 37 | 4.45 | 31.15 | 1585.5 | 169.76 | 0.0577 |
| 560 | 645 | 61 | 3.67 | 33.03 | 1778.4 | 190.14 | 0.0516 |
| 630 | 725 | 61 | 3.89 | 35.01 | 2000.7 | 213.90 | 0.0458 |
| 710 | 817 | 61 | 4.13 | 37.17 | 2254.8 | 241.07 | 0.0407 |
| 800 | 921 | 61 | 4.38 | 39.42 | 2540.6 | 271.62 | 0.0361 |
| 900 | 1036 | 91 | 3.81 | 41.91 | 2861.1 | 305.58 | 0.0632 |
| 1000 | 1151 | 91 | 4.01 | 44.11 | 3179.0 | 339.53 | 0.0289 |
| 1120 | 1289 | 91 | 4.25 | 46.75 | 3560.5 | 380.27 | 0.0258 |
| 1250 | 1439 | 91 | 4.49 | 49.39 | 3973.7 | 424.41 | 0.0231 |

ALL ALUMINIUM ALLOY CONDUCTOR
AAAC (Characteristics of A3 Conductors)

IEC 61089

| Code Number | Calculated Area | Number of Wire | Diameter of Wire | Diameter of Cond. | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|----------------|------------------|-------------------|-------------|----------------|------------------------------|
| mm ² | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.6 | 7 | 1.84 | 5.52 | 50.8 | 6.04 | 1.7896 |
| 25 | 29.0 | 7 | 2.30 | 6.90 | 79.5 | 9.44 | 1.1453 |
| 40 | 46.5 | 7 | 2.91 | 8.73 | 127.1 | 15.10 | 0.7158 |
| 63 | 73.2 | 7 | 3.65 | 10.95 | 200.2 | 23.06 | 0.4545 |
| 100 | 116 | 19 | 2.79 | 13.95 | 319.3 | 37.76 | 0.2877 |
| 125 | 145 | 19 | 3.12 | 15.6 | 399.2 | 47.20 | 0.2302 |
| 160 | 186 | 19 | 3.53 | 17.65 | 511.0 | 58.56 | 0.1798 |
| 200 | 232 | 19 | 3.95 | 19.75 | 638.7 | 73.20 | 0.1439 |
| 250 | 290 | 19 | 4.41 | 22.05 | 798.4 | 91.50 | 0.1151 |
| 315 | 366 | 37 | 3.55 | 24.85 | 1008.4 | 115.29 | 0.0916 |
| 400 | 465 | 37 | 4.00 | 28.0 | 1280.5 | 146.40 | 0.0721 |
| 450 | 523 | 37 | 4.24 | 29.68 | 1440.5 | 164.70 | 0.0641 |
| 500 | 581 | 37 | 4.47 | 31.29 | 1600.6 | 183.00 | 0.0577 |
| 560 | 651 | 61 | 3.69 | 33.21 | 1795.3 | 204.95 | 0.0516 |
| 630 | 732 | 61 | 3.91 | 35.19 | 2019.8 | 230.58 | 0.0458 |
| 710 | 825 | 61 | 4.15 | 37.35 | 2276.2 | 259.86 | 0.0407 |
| 800 | 930 | 61 | 4.40 | 39.6 | 2564.8 | 292.80 | 0.0361 |
| 900 | 1046 | 91 | 3.83 | 42.13 | 2888.3 | 329.40 | 0.0321 |
| 1000 | 1162 | 91 | 4.03 | 44.33 | 3209.3 | 366.00 | 0.0289 |
| 1120 | 1301 | 91 | 4.27 | 46.97 | 3594.4 | 409.92 | 0.0258 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR (JL/G1A)

Chinese Standard GB/T 1179-2008

| Nominal Area Al/St | Steel Ratio | Calculated Area | | | Number of Wires | | Wire Diameter | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------------|-------------|-----------------|-----------------|-----------------|-----------------|----|---------------|------|----------|-------|-------------|----------------|------------------------------|
| | | Al | St | Total | Al | St | Al | St | Steel | Cond. | | | |
| mm ² | % | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 10/2 | 17 | 10.60 | 1.77 | 12.37 | 6 | 1 | 1.50 | 1.50 | 1.50 | 4.50 | 42.8 | 4.14 | 2.7062 |
| 16/3 | 17 | 16.13 | 2.69 | 18.82 | 6 | 1 | 1.85 | 1.85 | 1.85 | 5.55 | 65.1 | 6.13 | 1.7791 |
| 35/6 | 17 | 34.86 | 5.81 | 40.67 | 6 | 1 | 2.72 | 2.72 | 2.72 | 8.16 | 140.8 | 12.55 | 0.8230 |
| 50/8 | 17 | 48.25 | 8.04 | 56.30 | 6 | 1 | 3.20 | 3.20 | 3.20 | 9.60 | 194.8 | 16.81 | 0.5946 |
| 50/30 | 58 | 50.73 | 29.59 | 80.32 | 12 | 7 | 2.32 | 2.32 | 6.96 | 11.6 | 371.1 | 42.61 | 0.5693 |
| 70/10 | 17 | 68.05 | 11.34 | 79.39 | 6 | 1 | 3.80 | 3.80 | 3.80 | 11.4 | 274.8 | 23.36 | 0.4217 |
| 70/40 | 58 | 69.73 | 40.67 | 110.40 | 12 | 7 | 2.72 | 2.72 | 8.16 | 13.6 | 510.2 | 58.22 | 0.4141 |
| 95/15 | 16 | 94.39 | 15.33 | 109.73 | 26 | 7 | 2.15 | 1.67 | 5.01 | 13.6 | 380.2 | 34.93 | 0.3059 |
| 95/20 | 20 | 95.14 | 18.82 | 113.96 | 7 | 7 | 4.16 | 1.85 | 5.55 | 13.9 | 408.2 | 37.24 | 0.3020 |
| 95/55 | 58 | 96.51 | 56.30 | 152.81 | 12 | 7 | 3.20 | 3.20 | 9.60 | 16.0 | 706.1 | 77.85 | 0.2992 |
| 120/7 | 6 | 118.89 | 6.61 | 125.50 | 18 | 1 | 2.90 | 2.90 | 2.90 | 14.5 | 378.5 | 27.74 | 0.2422 |
| 120/20 | 16 | 115.67 | 18.82 | 134.49 | 26 | 7 | 2.38 | 1.85 | 5.55 | 15.1 | 466.1 | 42.26 | 0.2496 |
| 120/25 | 20 | 122.48 | 24.25 | 146.73 | 7 | 7 | 4.72 | 2.10 | 6.30 | 15.7 | 525.7 | 47.96 | 0.2346 |
| 120/70 | 58 | 122.15 | 71.25 | 193.40 | 12 | 7 | 3.60 | 3.60 | 10.8 | 18.0 | 893.7 | 97.92 | 0.2364 |
| 150/8 | 6 | 144.76 | 8.04 | 152.80 | 18 | 1 | 3.20 | 3.20 | 3.20 | 16.0 | 460.9 | 32.73 | 0.1990 |
| 150/20 | 13 | 145.68 | 18.82 | 164.50 | 24 | 7 | 2.78 | 1.85 | 5.55 | 16.7 | 548.5 | 46.78 | 0.1981 |
| 150/25 | 16 | 148.86 | 24.25 | 173.11 | 26 | 7 | 2.70 | 2.10 | 6.30 | 17.1 | 600.1 | 53.67 | 0.1940 |
| 150/35 | 23 | 147.26 | 34.36 | 181.62 | 30 | 7 | 2.50 | 2.50 | 7.50 | 17.5 | 675.0 | 64.94 | 0.1962 |
| 185/10 | 6 | 183.22 | 10.18 | 193.40 | 18 | 1 | 3.60 | 3.60 | 3.60 | 18.0 | 583.3 | 40.51 | 0.1572 |
| 185/25 | 13 | 187.03 | 24.25 | 211.28 | 24 | 7 | 3.15 | 2.10 | 6.30 | 18.9 | 704.9 | 59.23 | 0.1543 |
| 185/30 | 16 | 181.34 | 29.59 | 210.93 | 26 | 7 | 2.98 | 2.32 | 6.96 | 18.9 | 731.4 | 64.56 | 0.1592 |
| 185/45 | 23 | 184.73 | 43.10 | 227.83 | 30 | 7 | 2.80 | 2.80 | 8.40 | 19.6 | 846.7 | 80.54 | 0.1564 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR (JL/G1A)

Chinese Standard GB/T 1179-2008

| Nominal Area Al/St | Steel Ratio | Calculated Area | | | Number of Wires | | Wire Diameter | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------------|-------------|-----------------|-----------------|-----------------|-----------------|----|---------------|------|----------|-------|-------------|----------------|------------------------------|
| | | Al | St | Total | Al | St | Al | St | Steel | Cond. | | | |
| mm ² | % | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 210/10 | 6 | 204.14 | 11.34 | 215.48 | 18 | 1 | 3.80 | 3.80 | 3.80 | 19.0 | 649.9 | 45.14 | 0.1411 |
| 210/25 | 13 | 209.02 | 27.10 | 236.12 | 24 | 7 | 3.33 | 2.22 | 6.66 | 20.0 | 787.8 | 66.19 | 0.1380 |
| 210/35 | 16 | 211.73 | 34.36 | 246.09 | 26 | 7 | 3.22 | 2.50 | 7.50 | 20.4 | 852.5 | 74.11 | 0.1364 |
| 210/50 | 23 | 209.24 | 48.82 | 258.06 | 30 | 7 | 2.98 | 2.98 | 8.94 | 20.9 | 959.0 | 91.23 | 0.1381 |
| 240/30 | 13 | 244.29 | 31.67 | 275.96 | 24 | 7 | 3.60 | 2.40 | 7.20 | 21.6 | 920.7 | 75.19 | 0.1181 |
| 240/40 | 16 | 238.84 | 38.90 | 277.74 | 26 | 7 | 3.42 | 2.66 | 7.98 | 21.7 | 962.8 | 83.76 | 0.1209 |
| 240/55 | 23 | 241.27 | 56.30 | 297.57 | 30 | 7 | 3.20 | 3.20 | 9.60 | 22.4 | 1105.8 | 101.74 | 0.1198 |
| 300/15 | 5 | 296.88 | 15.33 | 312.21 | 42 | 7 | 3.00 | 1.67 | 5.01 | 23.0 | 938.7 | 68.41 | 0.0973 |
| 300/20 | 7 | 303.42 | 20.91 | 324.32 | 45 | 7 | 2.93 | 1.95 | 5.85 | 23.4 | 1000.8 | 76.04 | 0.0952 |
| 300/25 | 9 | 306.21 | 27.10 | 333.31 | 48 | 7 | 2.85 | 2.22 | 6.66 | 23.8 | 1057.0 | 83.76 | 0.0944 |
| 300/40 | 13 | 300.09 | 38.90 | 338.99 | 24 | 7 | 3.99 | 2.66 | 7.98 | 23.9 | 1131.0 | 92.36 | 0.0961 |
| 300/50 | 16 | 299.54 | 48.82 | 348.37 | 26 | 7 | 3.83 | 2.98 | 8.94 | 24.3 | 1207.7 | 103.58 | 0.0964 |
| 300/70 | 23 | 305.36 | 71.25 | 376.61 | 30 | 7 | 3.60 | 3.60 | 10.8 | 25.2 | 1399.6 | 127.23 | 0.0946 |
| 400/20 | 5 | 406.40 | 20.91 | 427.31 | 42 | 7 | 3.51 | 1.95 | 5.85 | 26.9 | 1284.3 | 89.48 | 0.0710 |
| 400/25 | 7 | 391.91 | 27.10 | 419.01 | 45 | 7 | 3.33 | 2.22 | 6.66 | 26.6 | 1293.5 | 96.37 | 0.0737 |
| 400/35 | 9 | 390.88 | 34.36 | 425.24 | 48 | 7 | 3.22 | 2.50 | 7.50 | 26.8 | 1347.5 | 103.67 | 0.0739 |
| 400/65 | 16 | 398.94 | 65.06 | 464.00 | 26 | 7 | 4.42 | 3.44 | 10.3 | 28.0 | 1608.7 | 135.39 | 0.0724 |
| 400/95 | 23 | 407.75 | 93.27 | 501.02 | 30 | 19 | 4.16 | 2.50 | 12.5 | 29.1 | 1856.7 | 171.56 | 0.0709 |
| 500/45 | 9 | 488.58 | 43.10 | 531.68 | 48 | 7 | 3.60 | 2.80 | 8.40 | 30.0 | 1685.5 | 127.31 | 0.0591 |
| 630/55 | 9 | 639.92 | 56.30 | 696.22 | 48 | 7 | 4.12 | 3.20 | 9.60 | 34.3 | 2206.4 | 164.31 | 0.0452 |
| 800/55 | 7 | 814.30 | 56.30 | 870.60 | 45 | 7 | 4.80 | 3.20 | 9.60 | 38.4 | 2687.5 | 192.22 | 0.0355 |
| 800/70 | 9 | 808.15 | 71.25 | 879.40 | 48 | 7 | 4.63 | 3.60 | 10.8 | 38.6 | 2787.6 | 207.68 | 0.0358 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

ASTM B232

| Code Name | Calculated Area | | | | Stranding and Wire Diameter | | Approx. Overall Diameter | Weight | | | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------------------|--------|--------------------------|--------|-------|-------|-----------------------|------------------------------|-----------------|
| | Nominal | Alum. | Steel | Total | Alum. | Steel | | Alum. | Steel | Total | | | |
| | AWG or MCM | mm ² | mm ² | mm ² | mm | mm | | kg/km | kg/km | kg/km | | | |
| Turkey | 6 | 13.29 | 2.19 | 15.48 | 6/1.68 | 1/1.68 | 5.04 | 37 | 17 | 54 | 5.24 | 2.1586 | 3000 |
| Swan | 4 | 21.16 | 3.55 | 24.71 | 3/2.12 | 1/2.12 | 6.36 | 58 | 27 | 85 | 8.32 | 1.3557 | 3000 |
| Swanate | 4 | 21.16 | 5.35 | 26.51 | 7/1.96 | 1/2.61 | 6.53 | 58 | 42 | 100 | 10.53 | 1.3557 | 3000 |
| Sparrow | 2 | 33.61 | 5.61 | 39.22 | 6/2.67 | 1/2.67 | 8.01 | 92 | 44 | 136 | 12.70 | 0.8535 | 3000 |
| Sparate | 2 | 33.61 | 8.52 | 42.13 | 7/2.47 | 1/3.30 | 8.24 | 92 | 67 | 159 | 16.11 | 0.8535 | 2500 |
| Robin | 1 | 42.39 | 7.10 | 49.49 | 6/3.00 | 1/3.00 | 9.00 | 116 | 55 | 171 | 15.85 | 0.6767 | 2500 |
| Raven | 1/0 | 53.48 | 8.90 | 62.38 | 6/3.37 | 1/3.37 | 10.11 | 147 | 69 | 216 | 19.32 | 0.5364 | 2000 |
| Quail | 2/0 | 67.42 | 11.23 | 78.65 | 6/3.78 | 1/3.78 | 11.34 | 185 | 88 | 273 | 23.62 | 0.4255 | 3000 |
| Pigeon | 3/0 | 85.03 | 14.19 | 99.22 | 6/4.25 | 1/4.25 | 12.75 | 233 | 110 | 343 | 29.41 | 0.3373 | 2500 |
| Penguin | 4/0 | 107.23 | 17.87 | 125.10 | 6/4.77 | 1/4.77 | 14.31 | 294 | 139 | 433 | 37.06 | 0.2675 | 2000 |
| Waxwing | 266.8 | 135.16 | 7.48 | 142.64 | 18/3.09 | 1/3.09 | 15.45 | 373 | 58 | 431 | 30.27 | 0.2133 | 3500 |
| Partridge | 266.8 | 135.16 | 22.00 | 157.16 | 26/2.57 | 7/2.00 | 16.28 | 374 | 172 | 546 | 50.29 | 0.2143 | 2500 |
| Ostrich | 300 | 152.00 | 24.71 | 176.71 | 26/2.73 | 7/2.12 | 17.28 | 421 | 193 | 614 | 56.52 | 0.1906 | 3000 |
| Merlin | 336.4 | 170.45 | 9.48 | 179.93 | 18/3.47 | 1/3.47 | 17.5 | 470 | 74 | 544 | 38.23 | 0.1691 | 2000 |
| Linnet | 336.4 | 170.45 | 27.81 | 198.26 | 26/2.89 | 7/2.25 | 18.31 | 472 | 217 | 689 | 62.71 | 0.1699 | 2500 |
| Oriole | 336.4 | 170.45 | 39.81 | 210.26 | 30/2.69 | 7/2.69 | 18.83 | 473 | 311 | 784 | 77.27 | 0.1704 | 3000 |
| Chickadee | 397.5 | 201.42 | 11.16 | 212.58 | 18/3.77 | 1/3.77 | 18.85 | 555 | 87 | 642 | 43.99 | 0.1431 | 2500 |
| Brant | 397.5 | 201.42 | 26.13 | 227.55 | 24/3.27 | 7/2.18 | 19.61 | 558 | 204 | 762 | 64.69 | 0.1438 | 2000 |
| Ibis | 397.5 | 201.42 | 32.77 | 234.19 | 26/3.14 | 7/2.44 | 19.88 | 558 | 256 | 814 | 72.11 | 0.1438 | 2500 |
| Lark | 397.5 | 201.42 | 46.97 | 248.39 | 30/2.92 | 7/2.92 | 20.44 | 560 | 367 | 927 | 88.69 | 0.1442 | 2500 |
| Pelican | 477 | 241.68 | 13.42 | 255.10 | 18/4.14 | 1/4.14 | 20.70 | 666 | 105 | 771 | 52.16 | 0.1193 | 2000 |
| Flicker | 477 | 241.68 | 31.29 | 272.97 | 24/3.58 | 7/2.39 | 21.49 | 670 | 245 | 915 | 76.66 | 0.1199 | 3000 |
| Hawk | 477 | 241.68 | 39.42 | 281.10 | 26/3.44 | 7/2.67 | 21.79 | 670 | 308 | 978 | 86.65 | 0.1199 | 2000 |
| Hen | 477 | 241.68 | 56.39 | 298.07 | 30/3.20 | 7/3.20 | 22.40 | 671 | 441 | 1112 | 105.34 | 0.1201 | 2000 |
| Osprey | 556.5 | 282.00 | 15.68 | 297.68 | 18/4.47 | 1/4.47 | 22.35 | 777 | 122 | 899 | 60.88 | 0.1022 | 2000 |
| Parakeet | 556.5 | 282.00 | 36.58 | 318.58 | 24/3.87 | 7/2.58 | 23.22 | 781 | 286 | 1067 | 88.22 | 0.1027 | 3000 |
| Dove | 556.5 | 282.00 | 45.94 | 327.94 | 26/3.72 | 7/2.89 | 23.55 | 781 | 359 | 1140 | 101.03 | 0.1027 | 3000 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

ASTM B232

| Code Name | Calculated Area | | | | Stranding and Wire Diameter | | Approx. Overall Diameter | Weight | | | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------------------|---------|--------------------------|--------|-------|-------|-----------------------|------------------------------|-----------------|
| | Nominal | Alum. | Steel | Total | Alum. | Steel | | Alum. | Steel | Total | | | |
| | AWG or MCM | mm ² | mm ² | mm ² | mm | mm | | kg/km | kg/km | kg/km | | | |
| Eagle | 556.5 | 282.00 | 65.81 | 347.81 | 30/3.46 | 7/3.46 | 24.21 | 783 | 515 | 1298 | 122.92 | 0.1030 | 3500 |
| Peacock | 605 | 306.58 | 39.74 | 346.32 | 24/4.03 | 7/2.69 | 24.20 | 849 | 311 | 1160 | 95.88 | 0.0945 | 3000 |
| Squab | 605 | 306.58 | 49.94 | 356.52 | 26/3.87 | 7/3.01 | 24.51 | 850 | 390 | 1240 | 108.14 | 0.0945 | 3000 |
| Wood Duck | 605 | 306.58 | 71.55 | 378.13 | 30/3.61 | 7/3.61 | 25.25 | 851 | 560 | 1411 | 128.84 | 0.0947 | 3000 |
| Teal | 605 | 306.58 | 69.87 | 376.45 | 30/3.61 | 19/2.16 | 25.24 | 851 | 548 | 1399 | 133.59 | 0.0947 | 2000 |
| Kingbird | 636 | 322.26 | 17.90 | 340.16 | 18/4.78 | 1/4.78 | 23.88 | 889 | 139 | 1028 | 69.55 | 0.08945 | 2000 |
| Rook | 636 | 322.26 | 41.81 | 364.07 | 24/4.14 | 7/2.76 | 24.84 | 893 | 326 | 1219 | 100.83 | 0.08989 | 2500 |
| Grosbeak | 636 | 322.26 | 52.45 | 374.71 | 26/3.97 | 7/3.09 | 25.15 | 893 | 409 | 1302 | 111.80 | 0.08989 | 3000 |
| Scoter | 636 | 322.26 | 75.22 | 397.48 | 30/3.70 | 7/3.70 | 25.88 | 895 | 589 | 1484 | 135.44 | 0.09011 | 3000 |
| Egret | 636 | 322.26 | 73.55 | 395.81 | 30/3.70 | 19/2.22 | 25.90 | 894 | 576 | 1470 | 140.30 | 0.09011 | 3000 |
| Swift | 636 | 322.26 | 8.96 | 331.22 | 36/3.38 | 1/3.38 | 23.62 | 888 | 70 | 958 | 60.52 | 0.08945 | 2000 |
| Flamingo | 666.6 | 337.74 | 43.81 | 381.55 | 24/4.23 | 7/2.82 | 25.40 | 936 | 342 | 1278 | 105.66 | 0.08577 | 2500 |
| Gannet | 666.6 | 337.74 | 55.03 | 392.77 | 26/4.07 | 7/3.16 | 25.76 | 936 | 429 | 1365 | 117.33 | 0.08577 | 2500 |
| Stilt | 715.5 | 362.58 | 46.97 | 409.55 | 24/4.39 | 7/2.92 | 26.31 | 1005 | 367 | 1372 | 113.35 | 0.07989 | 2000 |
| Starling | 715.5 | 362.58 | 59.03 | 421.61 | 26/4.21 | 7/3.28 | 26.68 | 1005 | 461 | 1466 | 125.91 | 0.07989 | 2500 |
| Redwing | 715.5 | 362.58 | 82.58 | 445.16 | 30/3.92 | 19/2.35 | 27.43 | 1006 | 647 | 1653 | 153.94 | 0.08009 | 2000 |
| Tern | 795 | 402.84 | 27.87 | 430.71 | 45/3.38 | 7/2.25 | 27.03 | 1116 | 217 | 1333 | 97.37 | 0.07191 | 2500 |
| Condor | 795 | 402.84 | 52.19 | 455.03 | 54/3.08 | 7/3.08 | 27.72 | 1116 | 408 | 1524 | 124.45 | 0.07191 | 3000 |
| Cuckoo | 795 | 402.84 | 52.19 | 455.03 | 24/4.62 | 7/3.08 | 27.74 | 1116 | 408 | 1524 | 123.94 | 0.07191 | 2000 |
| Drake | 795 | 402.84 | 65.61 | 468.35 | 26/4.44 | 7/3.45 | 28.11 | 1116 | 512 | 1628 | 139.92 | 0.07191 | 2000 |
| Coot | 795 | 402.84 | 11.16 | 414 | 36/3.77 | 1/3.77 | 26.41 | 1110 | 88 | 1198 | 74.34 | 0.07156 | 3000 |
| Mallard | 795 | 402.84 | 91.87 | 494.71 | 30/4.14 | 19/2.48 | 28.96 | 1119 | 719 | 1838 | 171.18 | 0.07208 | 2500 |
| Ruddy | 900 | 456.06 | 31.54 | 487.60 | 45/3.59 | 7/2.40 | 28.73 | 1263 | 247 | 1510 | 108.96 | 0.06351 | 2000 |
| Canary | 900 | 456.06 | 59.10 | 515.16 | 54/3.28 | 7/3.28 | 29.52 | 1263 | 461 | 1724 | 140.95 | 0.06351 | 2000 |
| Rail | 954 | 483.42 | 33.42 | 516.84 | 45/3.70 | 7/2.47 | 29.61 | 1339 | 262 | 1601 | 115.63 | 0.05992 | 2000 |
| Catbird | 954 | 483.42 | 13.42 | 496.84 | 36/4.14 | 1/4.14 | 28.95 | 1333 | 105 | 1438 | 87.66 | 0.05962 | 2500 |
| Cardinal | 954 | 483.42 | 62.65 | 546.07 | 54/3.38 | 7/3.38 | 30.42 | 1339 | 490 | 1829 | 149.36 | 0.05992 | 2500 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

ASTM B232

| Code Name | Calculated Area | | | | Stranding and Wire Diameter | | Approx. Overall Diameter | Weight | | | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Standard Length |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|---------|--------------------------|--------|-------|-------|-----------------------|------------------------------|-----------------|
| | Nominal | Alum. | Steel | Total | Alum. | Steel | | Alum. | Steel | Total | | | |
| | AWG or MCM | mm ² | mm ² | mm ² | mm | mm | | kg/km | kg/km | kg/km | | | |
| Ortlan | 1033.5 | 523.68 | 36.19 | 559.87 | 45/3.85 | 7/2.57 | 30.81 | 1451 | 283 | 1734 | 123.10 | 0.05531 | 2000 |
| Tanger | 1033.5 | 523.68 | 14.51 | 538.19 | 36/4.30 | 1/4.30 | 30.12 | 1443 | 113 | 1556 | 94.93 | 0.05504 | 2000 |
| Curlew | 1033.5 | 523.68 | 67.87 | 591.55 | 54/3.52 | 7/3.52 | 31.68 | 1451 | 530 | 1981 | 161.80 | 0.05531 | 2000 |
| Bluejay | 1113 | 563.93 | 39.03 | 602.96 | 45/4.00 | 7/2.66 | 31.98 | 1563 | 385 | 1868 | 132.63 | 0.05136 | 2500 |
| Finch | 1113 | 563.93 | 71.55 | 635.48 | 54/3.65 | 19/2.19 | 32.85 | 1570 | 580 | 2130 | 174.41 | 0.05161 | 2000 |
| Bunting | 1192.5 | 604.26 | 41.55 | 645.81 | 45/4.14 | 7/2.76 | 33.12 | 1674 | 327 | 2001 | 141.79 | 0.04793 | 2500 |
| Grackle | 1192.5 | 604.26 | 76.58 | 680.84 | 54/3.77 | 19/2.27 | 33.97 | 1682 | 600 | 2282 | 186.38 | 0.04817 | 2000 |
| Bittern | 1272 | 644.51 | 44.52 | 689.03 | 45/4.27 | 7/2.85 | 34.17 | 1785 | 349 | 2134 | 151.48 | 0.04494 | 2500 |
| Pheasant | 1272 | 644.51 | 81.68 | 726.19 | 54/3.90 | 19/2.34 | 35.10 | 1795 | 638 | 2433 | 194.00 | 0.04516 | 2000 |
| Skylark | 1272 | 644.51 | 17.87 | 662.38 | 36/4.78 | 1/4.78 | 33.42 | 1777 | 140 | 1917 | 115.85 | 0.04472 | 2000 |
| Dipper | 1351.5 | 684.84 | 47.10 | 731.94 | 45/4.40 | 7/2.92 | 35.16 | 1898 | 368 | 2266 | 160.70 | 0.04230 | 2000 |
| Martin | 1351.5 | 684.84 | 86.71 | 771.55 | 54/4.02 | 19/2.41 | 36.17 | 1906 | 679 | 2585 | 206.05 | 0.04250 | 2000 |
| Bobolink | 1431 | 725.10 | 50.32 | 775.42 | 45/4.53 | 7/3.02 | 36.24 | 2009 | 393 | 2402 | 170.71 | 0.03994 | 2000 |
| Plover | 1431 | 725.10 | 91.87 | 816.97 | 54/4.14 | 19/2.48 | 37.24 | 2019 | 719 | 2738 | 218.24 | 0.04013 | 2500 |
| Nuthatch | 1510.5 | 765.35 | 52.90 | 818.25 | 45/4.65 | 7/3.10 | 37.20 | 2120 | 414 | 2534 | 177.89 | 0.03784 | 2000 |
| Parrot | 1510.5 | 765.35 | 96.84 | 862.19 | 54/4.25 | 19/2.55 | 38.25 | 2131 | 759 | 2890 | 230.20 | 0.03802 | 2000 |
| Lapwing | 1590 | 805.68 | 55.48 | 861.16 | 45/4.77 | 7/3.18 | 38.16 | 2232 | 435 | 2667 | 187.02 | 0.03595 | 2000 |
| Falcon | 1590 | 805.68 | 102.13 | 907.81 | 54/4.36 | 19/2.62 | 39.26 | 2243 | 799 | 3042 | 242.55 | 0.03613 | 2000 |
| High Strength Stranding | | | | | | | | | | | | | |
| Grouse | 80 | 40.52 | 14.13 | 54.65 | 8/2.54 | 1/4.24 | 9.32 | 112 | 110 | 222 | 23.60 | 0.7115 | 2500 |
| Petrel | 101.8 | 51.61 | 30.06 | 81.67 | 12/2.34 | 7/2.34 | 11.71 | 143 | 235 | 378 | 41.75 | 0.5613 | 2000 |
| Minorca | 110.8 | 56.13 | 32.77 | 88.90 | 12/2.44 | 7/2.44 | 12.22 | 156 | 256 | 412 | 51.25 | 0.5161 | 2000 |
| Leghorn | 134.6 | 68.19 | 39.81 | 108.00 | 12/2.69 | 7/2.69 | 13.46 | 189 | 311 | 500 | 61.70 | 0.4248 | 2000 |
| Guinea | 159 | 80.58 | 46.97 | 127.55 | 12/2.92 | 7/2.92 | 14.63 | 223 | 367 | 590 | 72.55 | 0.3595 | 2000 |
| Dotterel | 176.9 | 89.48 | 52.19 | 141.67 | 12/3.08 | 7/3.08 | 15.42 | 248 | 409 | 657 | 78.50 | 0.3237 | 2000 |
| Dorking | 190.8 | 96.71 | 56.39 | 153.10 | 12/3.20 | 7/3.20 | 16.03 | 268 | 441 | 709 | 84.80 | 0.2995 | 3000 |
| Brahma | 203.2 | 102.97 | 91.87 | 194.84 | 16/2.86 | 19/2.48 | 18.14 | 285 | 722 | 1007 | 128.80 | 0.2813 | 2500 |
| Cochin | 211.8 | 107.10 | 62.45 | 169.55 | 12/3.37 | 7/3.37 | 16.84 | 297 | 488 | 785 | 93.90 | 0.2705 | 3000 |

ALUMINIUM CONDUCTORS STEEL REINFORCED
ACSR

BS 215 Part 2

| Code Name | Area | | | | Stranding | | Approx. Overall Diameter | Weight | | | Nominal breaking load | Max. D.C. Resistance at 20°C |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------|--------|--------------------------|--------|-------|-------|-----------------------|------------------------------|
| | Nominal Alum. | Alum. | Steel | Total | Alum. | Steel | | Alum. | Steel | Total | | |
| | mm ² | mm ² | mm ² | mm ² | mm | mm | | kg/km | kg/km | kg/km | | |
| Mole | 10 | 10.62 | 1.77 | 12.39 | 6/1.50 | 1/1.50 | 4.50 | 29 | 14 | 43 | 4.14 | 2.076 |
| Squirrel | 20 | 20.94 | 3.49 | 24.43 | 6/2.11 | 1/2.11 | 6.33 | 58 | 27 | 85 | 7.88 | 1.368 |
| Gopher | 25 | 26.25 | 4.37 | 30.62 | 6/2.36 | 1/2.36 | 7.08 | 72 | 34 | 106 | 9.61 | 1.093 |
| Weasel | 30 | 31.61 | 5.27 | 36.88 | 6/2.59 | 1/2.59 | 7.77 | 87 | 41 | 128 | 11.45 | 0.9077 |
| Fox | 35 | 36.66 | 6.11 | 42.77 | 6/2.79 | 1/2.79 | 8.37 | 101 | 48 | 149 | 13.20 | 0.7822 |
| Ferret | 40 | 42.41 | 7.07 | 49.48 | 6/3.00 | 1/3.00 | 9.00 | 117 | 55 | 172 | 15.20 | 0.6766 |
| Rabbit | 50 | 52.88 | 8.82 | 61.70 | 6/3.35 | 1/3.35 | 10.05 | 145 | 69 | 214 | 18.35 | 0.5426 |
| Mink | 60 | 63.18 | 10.53 | 73.71 | 6/3.66 | 1/3.66 | 10.98 | 173 | 82 | 255 | 21.80 | 0.4545 |
| Skunk | 60 | 63.27 | 36.93 | 100.30 | 12/2.59 | 7/2.59 | 12.95 | 175 | 290 | 465 | 53.00 | 0.4567 |
| Beaver | 70 | 74.82 | 12.47 | 87.29 | 6/3.99 | 1/3.99 | 11.97 | 205 | 97 | 302 | 25.70 | 0.3825 |
| Horse | 70 | 73.37 | 42.80 | 116.17 | 12/2.79 | 7/2.79 | 13.95 | 203 | 335 | 538 | 61.20 | 0.3936 |
| Raccoon | 75 | 79.20 | 13.20 | 92.40 | 6/4.10 | 1/4.10 | 12.30 | 217 | 103 | 320 | 27.20 | 0.3622 |
| Otter | 80 | 83.88 | 13.98 | 97.86 | 6/4.22 | 1/4.22 | 12.66 | 230 | 109 | 339 | 28.80 | 0.3419 |
| Cat | 90 | 95.40 | 15.90 | 111.30 | 6/4.50 | 1/4.50 | 13.50 | 262 | 124 | 386 | 32.70 | 0.3007 |
| Hare | 100 | 105.00 | 17.50 | 122.50 | 6/4.72 | 1/4.72 | 14.16 | 288 | 137 | 425 | 36.00 | 0.2733 |
| Dog | 100 | 105.00 | 13.50 | 118.50 | 6/4.72 | 7/1.57 | 14.15 | 288 | 106 | 394 | 32.70 | 0.2733 |
| Hyena | 100 | 105.80 | 20.44 | 126.20 | 7/4.39 | 7/1.93 | 14.57 | 290 | 160 | 450 | 40.90 | 0.2712 |
| Leopard | 125 | 131.30 | 16.80 | 148.10 | 6/5.28 | 7/1.75 | 15.81 | 360 | 132 | 492 | 40.70 | 0.2184 |
| Coyote | 125 | 132.10 | 20.10 | 152.20 | 26/2.54 | 7/1.91 | 15.89 | 365 | 157 | 522 | 46.40 | 0.2187 |
| Cougar | 125 | 130.30 | 7.25 | 137.50 | 18/3.05 | 1/3.05 | 15.25 | 362 | 57 | 419 | 29.80 | 0.2189 |
| Tiger | 125 | 131.10 | 30.60 | 161.70 | 30/2.36 | 7/2.36 | 16.52 | 362 | 240 | 602 | 58.00 | 0.2202 |
| Wolf | 150 | 158.00 | 36.90 | 194.90 | 30/2.59 | 7/2.59 | 18.13 | 437 | 289 | 726 | 69.20 | 0.1828 |
| Dingo | 150 | 158.70 | 8.80 | 167.50 | 18/3.35 | 1/3.35 | 16.75 | 437 | 69 | 506 | 35.70 | 0.1815 |
| Lynx | 175 | 183.40 | 42.80 | 226.20 | 30/2.79 | 7/2.79 | 19.53 | 507 | 335 | 842 | 79.80 | 0.1576 |
| Caracal | 175 | 184.20 | 10.30 | 194.50 | 18/3.61 | 1/3.61 | 18.05 | 507 | 80 | 587 | 41.10 | 0.1563 |
| Panther | 200 | 212.00 | 49.50 | 261.50 | 30/3.00 | 7/3.00 | 21.00 | 586 | 388 | 974 | 92.25 | 0.1363 |
| Lion | 225 | 238.50 | 55.60 | 294.20 | 30/3.18 | 7/3.18 | 22.26 | 659 | 436 | 1095 | 109.60 | 0.1212 |
| Bear | 250 | 264.00 | 61.60 | 325.60 | 30/3.35 | 7/3.35 | 23.45 | 730 | 483 | 1213 | 111.10 | 0.1093 |
| Goat | 300 | 324.30 | 75.70 | 400.00 | 30/3.71 | 7/3.71 | 25.97 | 896 | 593 | 1489 | 135.70 | 0.0891 |
| Sheep | 350 | 374.10 | 87.30 | 461.40 | 30/3.99 | 7/3.99 | 27.93 | 1034 | 684 | 1718 | 155.90 | 0.07704 |
| Antelope | 350 | 373.10 | 48.40 | 421.50 | 54/2.97 | 7/2.97 | 26.73 | 1032 | 379 | 1411 | 118.20 | 0.07727 |
| Bison | 350 | 381.80 | 49.50 | 431.30 | 54/3.00 | 7/3.00 | 27.00 | 1056 | 388 | 1444 | 120.90 | 0.07573 |
| Jaguar | 200 | 210.60 | 11.70 | 222.30 | 18/3.86 | 1/3.86 | 19.30 | 580 | 91 | 671 | 46.55 | 0.13670 |
| Deer | 400 | 429.30 | 100.20 | 529.50 | 30/4.27 | 7/4.27 | 29.89 | 1186 | 785 | 1971 | 178.50 | 0.06726 |
| Zebra | 400 | 428.90 | 55.60 | 484.50 | 54/3.18 | 7/3.18 | 28.62 | 1186 | 435 | 1621 | 131.90 | 0.06740 |
| Elk | 450 | 477.00 | 111.30 | 588.30 | 30/4.50 | 7/4.50 | 31.50 | 1318 | 872 | 2190 | 198.20 | 0.06056 |
| Camel | 450 | 475.20 | 61.60 | 536.80 | 54/3.35 | 7/3.35 | 30.15 | 1314 | 483 | 1797 | 145.70 | 0.06073 |
| Moose | 500 | 528.70 | 68.50 | 597.20 | 54/3.53 | 7/3.53 | 31.77 | 1462 | 537 | 1999 | 161.10 | 0.05470 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

CSA C49

| Code Name | KCMIL or AWG | Area | | Steel Ratio % | Stranding | | | | Core Dia. mm | Overall Dia. mm | Linear Mass kg/km | Rated Tensile Strength kN | Max. D.C. Resistance at 20°C Ω/km |
|-----------|--------------|-----------|-----------|---------------|------------|---------|------------|---------|--------------|-----------------|-------------------|---------------------------|-----------------------------------|
| | | Alum. mm² | Total mm² | | Alum. Wire | | Steel Wire | | | | | | |
| | | | | | No. | Dia. mm | No. | Dia. mm | | | | | |
| Wren | 8 | 8.37 | 9.76 | 17 | 6 | 1.33 | 1 | 1.33 | 1.33 | 3.99 | 33.8 | 3.29 | 3.430 |
| Warbler | 7 | 10.55 | 12.32 | 17 | 6 | 1.50 | 1 | 1.50 | 1.50 | 4.50 | 42.8 | 4.14 | 2.720 |
| Turkey | 6 | 13.30 | 15.51 | 17 | 6 | 1.68 | 1 | 1.68 | 1.68 | 5.04 | 53.8 | 5.19 | 2.158 |
| Thrush | 5 | 16.77 | 19.57 | 17 | 6 | 1.89 | 1 | 1.89 | 1.89 | 5.67 | 67.9 | 6.56 | 1.711 |
| Swan | 4 | 21.15 | 24.68 | 17 | 6 | 2.12 | 1 | 2.12 | 2.12 | 6.36 | 85.6 | 8.15 | 1.357 |
| Swallow | 3 | 26.66 | 31.11 | 17 | 6 | 2.38 | 1 | 2.38 | 2.38 | 7.14 | 107.9 | 10.0 | 1.076 |
| Sparrow | 2 | 33.63 | 39.22 | 17 | 6 | 2.67 | 1 | 2.67 | 2.67 | 8.01 | 136.0 | 12.4 | 0.8534 |
| Robin | 1 | 42.41 | 49.48 | 17 | 6 | 3.00 | 1 | 3.00 | 3.00 | 9.00 | 171.6 | 15.3 | 0.6766 |
| Raven | 1/0 | 53.51 | 62.43 | 17 | 6 | 3.37 | 1 | 3.37 | 3.37 | 10.11 | 216.5 | 18.9 | 0.5363 |
| Quail | 2/0 | 67.44 | 78.67 | 17 | 6 | 3.78 | 1 | 3.78 | 3.78 | 11.34 | 273 | 23.5 | 0.4255 |
| Pigeon | 3/0 | 85.03 | 99.21 | 17 | 6 | 4.25 | 1 | 4.25 | 4.25 | 12.75 | 344 | 29.6 | 0.3375 |
| Penguin | 4/0 | 107.2 | 125.1 | 17 | 6 | 4.77 | 1 | 4.77 | 4.77 | 14.31 | 434 | 37.3 | 0.2676 |
| Partridge | 266.8 | 135.2 | 157.2 | 16 | 26 | 2.57 | 7 | 2.00 | 6.00 | 16.28 | 546 | 50.0 | 0.2136 |
| Owl | 266.8 | 135.2 | 152.8 | 13 | 6 | 5.36 | 7 | 1.79 | 5.37 | 16.09 | 509 | 42.3 | 0.2123 |
| Waxwing | 266.8 | 135.2 | 142.7 | 6 | 18 | 3.09 | 1 | 3.09 | 3.09 | 15.45 | 431 | 31.2 | 0.2130 |
| Piper | 300 | 152.0 | 187.5 | 23 | 30 | 2.54 | 7 | 2.54 | 7.62 | 17.78 | 698 | 67.8 | 0.1898 |
| Ostrich | 300 | 152.0 | 176.7 | 16 | 26 | 2.73 | 7 | 2.12 | 6.36 | 17.28 | 614 | 56.3 | 0.1900 |
| Phoebe | 300 | 152.0 | 160.5 | 6 | 18 | 3.28 | 1 | 3.28 | 3.28 | 16.40 | 485 | 35.2 | 0.1895 |
| Oriole | 336.4 | 170.5 | 210.2 | 23 | 30 | 2.69 | 7 | 2.69 | 8.07 | 18.83 | 783 | 76.0 | 0.1693 |
| Linnet | 336.4 | 170.5 | 198.3 | 16 | 26 | 2.89 | 7 | 2.25 | 6.75 | 8.31 | 689 | 62.4 | 0.1694 |
| Merlin | 336.4 | 170.5 | 179.9 | 6 | 18 | 3.47 | 1 | 3.47 | 3.47 | 17.35 | 522 | 39.3 | 0.1690 |
| Lark | 397.5 | 201.4 | 248.3 | 23 | 30 | 2.92 | 7 | 2.92 | 8.76 | 20.44 | 924 | 88.6 | 0.1433 |
| Ibis | 397.5 | 201.4 | 234.1 | 16 | 26 | 3.14 | 7 | 2.44 | 7.32 | 19.88 | 813 | 71.5 | 0.1434 |
| Chickadee | 397.5 | 201.4 | 212.6 | 6 | 18 | 3.77 | 1 | 3.77 | 3.77 | 18.85 | 642 | 45.4 | 0.1430 |
| Hen | 477 | 241.7 | 298.0 | 23 | 30 | 3.20 | 7 | 3.20 | 9.60 | 22.40 | 1109 | 103 | 0.1194 |
| Hawk | 477 | 241.7 | 281.2 | 16 | 26 | 3.44 | 7 | 2.68 | 8.04 | 21.80 | 977 | 86.1 | 0.1195 |
| Toucan | 477 | 241.7 | 265.5 | 10 | 22 | 3.74 | 7 | 2.08 | 6.24 | 21.20 | 854 | 68.9 | 0.1193 |
| Pelican | 477 | 241.7 | 255.1 | 6 | 18 | 4.13 | 1 | 4.13 | 4.13 | 20.65 | 771 | 54.5 | 0.1192 |
| Heron | 500 | 253.4 | 312.5 | 23 | 30 | 3.28 | 7 | 3.28 | 9.84 | 22.96 | 1163 | 108 | 0.1139 |
| Eagle | 556.5 | 282.0 | 347.8 | 23 | 30 | 3.46 | 7 | 3.46 | 10.38 | 24.22 | 1295 | 120 | 0.1023 |
| Dove | 556.5 | 282.0 | 327.9 | 16 | 26 | 3.72 | 7 | 2.89 | 8.67 | 23.55 | 1139 | 100 | 0.1024 |
| Sapsucker | 556.5 | 282.0 | 309.6 | 10 | 22 | 4.04 | 7 | 2.24 | 6.72 | 22.88 | 995 | 78.8 | 0.1023 |
| Duck | 605 | 306.6 | 346.3 | 13 | 54 | 2.69 | 7 | 2.69 | 8.07 | 24.21 | 1160 | 101 | 0.09435 |
| - | 605 | 306.6 | 336.7 | 10 | 22 | 4.21 | 7 | 2.34 | 7.02 | 23.86 | 1082 | 84.8 | 0.09408 |
| Egret | 636 | 322.3 | 395.8 | 23 | 30 | 3.70 | 19 | 2.22 | 11.10 | 25.90 | 1469 | 141 | 0.08955 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

CSA C49

| Code Name | KCMIL or AWG | Area | | Steel Ratio % | Stranding | | | | Core Dia. mm | Overall Dia. mm | Linear Mass kg/km | Rated Tensile Strength kN | Max. D.C. Resistance at 20°C Ω/km |
|-------------|--------------|-----------|-----------|---------------|------------|---------|------------|---------|--------------|-----------------|-------------------|---------------------------|-----------------------------------|
| | | Alum. mm² | Total mm² | | Alum. Wire | | Steel Wire | | | | | | |
| | | | | | No. | Dia. mm | No. | Dia. mm | | | | | |
| Grosbeak | 636 | 322.3 | 374.8 | 16 | 26 | 3.97 | 7 | 3.09 | 9.27 | 25.15 | 1302 | 111 | 0.08960 |
| Goose | 636 | 322.3 | 364.1 | 13 | 54 | 2.76 | 7 | 2.76 | 8.28 | 24.84 | 1220 | 104 | 0.08975 |
| Goldfinch | 636 | 322.3 | 353.9 | 10 | 22 | 4.32 | 7 | 2.40 | 7.20 | 24.48 | 1138 | 89.3 | 0.08949 |
| Gull | 666.6 | 337.8 | 381.5 | 13 | 54 | 2.82 | 7 | 2.82 | 8.46 | 25.38 | 1278 | 109 | 0.08563 |
| - | 666.6 | 337.8 | 355.2 | 5 | 42 | 3.20 | 7 | 1.78 | 5.34 | 24.54 | 1070 | 77.8 | 0.08552 |
| Redwing | 715.5 | 362.6 | 445.0 | 23 | 30 | 3.92 | 19 | 2.35 | 11.75 | 27.43 | 1650 | 154 | 0.07960 |
| Starling | 715.5 | 362.6 | 421.3 | 16 | 26 | 4.21 | 7 | 3.27 | 9.81 | 26.65 | 1463 | 124 | 0.07964 |
| Crow | 715.5 | 362.6 | 409.4 | 13 | 54 | 2.92 | 7 | 2.92 | 8.76 | 26.28 | 1370 | 117 | 0.07978 |
| - | 715.5 | 362.6 | 381.2 | 5 | 42 | 3.32 | 7 | 1.84 | 5.52 | 25.44 | 1148 | 83.6 | 0.07968 |
| Mallard | 795 | 402.8 | 494.6 | 23 | 30 | 4.13 | 19 | 2.48 | 12.40 | 28.92 | 1835 | 171 | 0.07164 |
| Drake | 795 | 402.8 | 468.3 | 16 | 26 | 4.44 | 7 | 3.45 | 10.35 | 28.11 | 1626 | 138 | 0.07168 |
| Condor | 795 | 402.8 | 455.0 | 13 | 54 | 3.08 | 7 | 3.08 | 9.24 | 27.72 | 1524 | 126 | 0.07180 |
| Macaw | 795 | 402.8 | 423.5 | 5 | 42 | 3.49 | 7 | 1.94 | 5.82 | 26.76 | 1276 | 92.5 | 0.07171 |
| Crane | 874.5 | 443.1 | 500.5 | 13 | 54 | 3.23 | 7 | 3.23 | 9.69 | 29.07 | 1676 | 138 | 0.06527 |
| - | 874.5 | 443.1 | 466.0 | 5 | 42 | 3.67 | 7 | 2.04 | 6.12 | 28.14 | 1404 | 102 | 0.06519 |
| Canary | 900 | 456.0 | 515.2 | 13 | 54 | 3.28 | 7 | 3.28 | 9.84 | 29.52 | 1726 | 143 | 0.06342 |
| - | 900 | 456.0 | 479.6 | 5 | 42 | 3.72 | 7 | 2.07 | 6.21 | 28.53 | 1554 | 105 | 0.06334 |
| Cardinal | 954 | 483.4 | 546.2 | 13 | 54 | 3.38 | 7 | 3.38 | 10.14 | 30.42 | 1830 | 151 | 0.05983 |
| Phoenix | 954 | 483.4 | 508.3 | 5 | 42 | 3.83 | 7 | 2.13 | 6.39 | 29.37 | 1532 | 109 | 0.05976 |
| Curlew | 1033.5 | 523.7 | 591.4 | 13 | 54 | 3.51 | 7 | 3.51 | 10.53 | 31.59 | 1980 | 163 | 0.05523 |
| Snowbird | 1033.5 | 523.7 | 550.5 | 5 | 42 | 3.98 | 7 | 2.21 | 6.63 | 30.51 | 1658 | 118 | 0.05516 |
| Finch | 1113 | 564.0 | 635.5 | 13 | 54 | 3.65 | 19 | 2.19 | 10.95 | 32.85 | 2124 | 180 | 0.05129 |
| Beaumont | 1113 | 564.0 | 692.8 | 5 | 42 | 4.13 | 7 | 2.29 | 6.87 | 31.65 | 1785 | 126 | 0.05122 |
| Grackle | 1192.5 | 604.3 | 680.5 | 13 | 54 | 3.77 | 19 | 2.26 | 11.30 | 33.92 | 2272 | 189 | 0.04787 |
| - | 1192.5 | 604.3 | 635.4 | 5 | 42 | 4.28 | 7 | 2.38 | 7.14 | 32.82 | 1915 | 135 | 0.04781 |
| Pheasant | 1272 | 644.5 | 726.2 | 13 | 54 | 3.90 | 19 | 2.34 | 11.70 | 35.10 | 2427 | 200 | 0.04487 |
| Scissortail | 1272 | 644.5 | 677.8 | 5 | 42 | 4.42 | 7 | 2.46 | 7.38 | 33.90 | 2043 | 144 | 0.04482 |
| Martin | 1351.5 | 684.8 | 771.5 | 13 | 54 | 4.02 | 19 | 2.41 | 12.05 | 36.17 | 2577 | 212 | 0.04223 |
| - | 1351.5 | 684.8 | 720.0 | 5 | 42 | 4.56 | 7 | 2.53 | 7.59 | 34.95 | 2169 | 153 | 0.04218 |
| Plover | 1431 | 725.1 | 816.9 | 13 | 54 | 4.13 | 19 | 2.48 | 12.40 | 37.18 | 2729 | 224 | 0.03989 |
| - | 1431 | 725.1 | 762.6 | 5 | 42 | 4.69 | 7 | 2.61 | 7.83 | 35.97 | 2298 | 162 | 0.03984 |
| Parrot | 1510.5 | 765.4 | 862.4 | 13 | 54 | 4.25 | 19 | 2.55 | 12.75 | 38.25 | 2882 | 237 | 0.03779 |
| - | 1510.5 | 765.4 | 804.9 | 5 | 42 | 4.82 | 7 | 2.68 | 8.04 | 36.96 | 2425 | 171 | 0.03774 |
| Falcon | 1590 | 805.7 | 908.1 | 13 | 54 | 4.36 | 19 | 2.62 | 13.10 | 39.26 | 3036 | 250 | 0.03590 |
| - | 1590 | 805.7 | 876.5 | 9 | 48 | 4.62 | 7 | 3.59 | 10.77 | 38.49 | 2783 | 211 | 0.03586 |
| - | 1590 | 805.7 | 840.3 | 4 | 72 | 3.77 | 7 | 2.51 | 7.53 | 37.69 | 2501 | 172 | 0.03590 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR

DIN 48204

| Code Number | Calculated Area | | | Stranding and Wire Diameter | | Overall Diameter | Linear Mass | | | Nominal Breaking Load | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------------------|---------|------------------|-------------|-------|-------|-----------------------|------------------------------|
| | Al/St. | Al. | Steel | Total | Alum. | | Steel | Alum. | Steel | | |
| mm ² | mm ² | mm ² | mm ² | mm | mm | mm | kg/km | kg/km | kg/km | daN | Ω/km |
| 16/2.5 | 15.3 | 2.5 | 17.8 | 6/1.80 | 1/1.80 | 5.4 | 42 | 20 | 62 | 595 | 1.8780 |
| 25/4 | 23.8 | 4.0 | 27.8 | 6/2.25 | 1/2.25 | 6.8 | 65 | 32 | 97 | 920 | 1.2002 |
| 35/6 | 34.3 | 5.7 | 40.0 | 6/2.70 | 1/2.70 | 8.1 | 94 | 46 | 140 | 1265 | 0.8352 |
| 44/32 | 44.0 | 31.7 | 75.7 | 14/2.00 | 7/2.40 | 11.2 | 122 | 250 | 372 | 4500 | 0.6573 |
| 50/8 | 48.3 | 8.0 | 56.3 | 6/3.20 | 1/3.20 | 9.6 | 132 | 64 | 196 | 1710 | 0.5946 |
| 50/30 | 51.2 | 29.8 | 81.0 | 12/2.33 | 7/2.33 | 11.7 | 141 | 237 | 378 | 4380 | 0.5643 |
| 70/12 | 69.9 | 11.4 | 81.3 | 26/1.85 | 7/1.44 | 11.7 | 193 | 91 | 284 | 2680 | 0.4130 |
| 95/15 | 94.4 | 15.3 | 109.7 | 26/2.15 | 7/1.67 | 13.6 | 260 | 123 | 383 | 3575 | 0.3058 |
| 95/55 | 96.5 | 56.3 | 152.8 | 12/3.20 | 7/3.20 | 16.0 | 266 | 446 | 712 | 7935 | 0.2992 |
| 105/75 | 105.7 | 75.5 | 181.5 | 14/3.10 | 9/2.25 | 17.5 | 292 | 599 | 891 | 10845 | 0.2735 |
| 120/20 | 121.06 | 19.8 | 141.4 | 26/2.44 | 7/1.90 | 15.5 | 336 | 158 | 494 | 4565 | 0.2374 |
| 120/70 | 122.0 | 71.3 | 193.3 | 12/3.6 | 7/3.60 | 18.0 | 337 | 564 | 901 | 10000 | 0.2364 |
| 125/30 | 127.9 | 29.8 | 157.7 | 30/2.33 | 7/2.33 | 16.3 | 353 | 238 | 591 | 5760 | 0.2259 |
| 150/25 | 148.9 | 24.2 | 173.1 | 26/2.70 | 7/2.10 | 17.1 | 411 | 194 | 605 | 5525 | 0.1939 |
| 170/40 | 171.8 | 40.1 | 211.9 | 30/2.70 | 7/2.70 | 18.9 | 475 | 319 | 794 | 7675 | 0.1682 |
| 185/30 | 183.8 | 29.8 | 213.6 | 26/3.00 | 7/2.33 | 19.0 | 507 | 239 | 746 | 6620 | 0.1571 |
| 210/35 | 209.1 | 34.1 | 243.2 | 26/3.20 | 7/2.49 | 20.3 | 577 | 273 | 850 | 7490 | 0.1380 |
| 210/50 | 212.1 | 49.5 | 261.6 | 30/3.00 | 7/3.00 | 21.0 | 587 | 394 | 981 | 9390 | 0.1362 |
| 230/30 | 230.9 | 29.8 | 260.7 | 24/3.50 | 7/2.33 | 21.0 | 638 | 239 | 877 | 7310 | 0.1249 |
| 240/40 | 243.0 | 39.5 | 282.5 | 26/3.45 | 7/2.68 | 21.9 | 671 | 316 | 987 | 8640 | 0.1188 |
| 265/35 | 263.7 | 34.1 | 297.8 | 24/3.74 | 7/2.49 | 22.4 | 728 | 274 | 1002 | 8305 | 0.1094 |
| 300/50 | 304.3 | 49.5 | 353.7 | 26/3.86 | 7/3.00 | 24.5 | 840 | 396 | 1236 | 10700 | 0.09487 |
| 305/40 | 304.6 | 39.5 | 344.1 | 54/2.68 | 7/2.68 | 24.1 | 843 | 317 | 1160 | 9940 | 0.09490 |
| 340/30 | 339.3 | 29.8 | 369.1 | 48/3.00 | 7/2.33 | 25.0 | 938 | 242 | 1180 | 9290 | 0.08509 |
| 380/50 | 382.0 | 49.5 | 431.5 | 54/3.00 | 7/3.00 | 27.0 | 1056 | 397 | 1453 | 12310 | 0.08509 |
| 385/35 | 386.0 | 34.1 | 420.1 | 48/3.20 | 7/2.49 | 26.7 | 1067 | 277 | 1344 | 10480 | 0.07573 |
| 435/55 | 434.03 | 59.3 | 490.6 | 54/3.20 | 7/3.20 | 28.8 | 1203 | 450 | 1653 | 13645 | 0.07478 |
| 450/40 | 448.7 | 39.5 | 488.2 | 48/3.45 | 7/2.68 | 28.7 | 1241 | 320 | 1561 | 12075 | 0.06656 |
| 490/65 | 490.3 | 63.6 | 553.9 | 54/3.40 | 7/3.40 | 30.6 | 1356 | 510 | 1866 | 15310 | 0.06434 |
| 495/35 | 494.1 | 34.1 | 528.2 | 45/3.74 | 7/2.49 | 29.9 | 1363 | 283 | 1646 | 12180 | 0.05846 |
| 510/45 | 510.2 | 45.3 | 555.5 | 48/3.68 | 7/2.87 | 30.7 | 1413 | 365 | 1778 | 13665 | 0.05655 |
| 550/70 | 550.0 | 71.3 | 621.3 | 54/3.60 | 7/3.60 | 32.4 | 1520 | 572 | 2092 | 17060 | 0.05259 |
| 560/50 | 561.7 | 49.5 | 611.2 | 48/3.86 | 7/3.00 | 32.2 | 1553 | 401 | 1954 | 14895 | 0.05140 |
| 570/40 | 565.5 | 39.5 | 610.3 | 45/4.02 | 7/2.68 | 32.2 | 1563 | 325 | 1888 | 13900 | 0.05108 |
| 650/45 | 698.8 | 45.3 | 653.49 | 45/4.30 | 7/2.87 | 34.4 | 1791 | 372 | 2163 | 15552 | 0.0442 |
| 680/85 | 678.8 | 86.0 | 764.8 | 54/4.00 | 19/2.40 | 36.0 | 1868 | 702 | 2570 | 21040 | 0.04260 |
| 1045/45 | 1045.58 | 45.3 | 1090.9 | 72/4.30 | 7/2.87 | 43.0 | 2879 | 370 | 3249 | 21787 | 0.0277 |

ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR (Characteristics of A1/S1A Conductor)

IEC 61089

| Code Number | Area | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|-------|----------|-------|-------------|----------------|------------------------------|
| | Alum. | Steel | Total | Al. | St. | Alum. | Steel | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 16 | 2.67 | 18.7 | 6 | 1 | 1.84 | 1.84 | 1.84 | 5.53 | 64.6 | 6.08 | 1.7934 |
| 25 | 25 | 4.17 | 29.2 | 6 | 1 | 2.30 | 2.30 | 2.30 | 6.91 | 100.9 | 9.13 | 1.1478 |
| 40 | 40 | 6.67 | 46.7 | 6 | 1 | 2.91 | 2.91 | 2.91 | 8.74 | 161.5 | 14.40 | 0.7174 |
| 63 | 63 | 10.5 | 73.5 | 6 | 1 | 3.66 | 3.66 | 3.66 | 11.0 | 254.4 | 21.63 | 0.4555 |
| 100 | 100 | 16.7 | 117 | 6 | 1 | 4.61 | 4.61 | 4.61 | 13.8 | 403.8 | 34.33 | 0.2869 |
| 125 | 125 | 6.94 | 132 | 18 | 1 | 2.97 | 2.97 | 2.97 | 14.9 | 397.9 | 29.17 | 0.2304 |
| 125 | 125 | 20.4 | 145 | 26 | 7 | 2.47 | 1.92 | 5.77 | 15.7 | 503.9 | 45.69 | 0.2310 |
| 160 | 160 | 8.89 | 169 | 18 | 1 | 3.36 | 3.36 | 3.36 | 16.8 | 509.3 | 36.18 | 0.1800 |
| 160 | 160 | 26.1 | 186 | 26 | 7 | 2.80 | 2.18 | 6.53 | 17.7 | 644.9 | 57.69 | 0.1805 |
| 200 | 200 | 11.1 | 211 | 18 | 1 | 3.76 | 3.76 | 3.76 | 18.8 | 636.7 | 44.22 | 0.1440 |
| 200 | 200 | 32.6 | 233 | 26 | 7 | 3.13 | 2.43 | 7.30 | 19.8 | 806.2 | 70.13 | 0.1444 |
| 250 | 250 | 24.6 | 275 | 22 | 7 | 3.80 | 2.11 | 6.34 | 21.6 | 880.6 | 68.72 | 0.1154 |
| 250 | 250 | 40.7 | 291 | 26 | 7 | 3.50 | 2.72 | 8.16 | 22.2 | 1007.7 | 87.67 | 0.1155 |
| 315 | 315 | 21.8 | 337 | 45 | 7 | 2.99 | 1.99 | 5.97 | 23.9 | 1039.3 | 79.03 | 0.0917 |
| 315 | 315 | 51.3 | 366 | 26 | 7 | 3.93 | 3.05 | 9.16 | 24.9 | 1269.7 | 106.83 | 0.0917 |
| 400 | 400 | 27.7 | 428 | 45 | 7 | 3.36 | 2.24 | 6.73 | 26.9 | 1320.1 | 98.36 | 0.0722 |
| 400 | 400 | 51.9 | 452 | 54 | 7 | 3.07 | 3.07 | 9.21 | 27.6 | 1510.3 | 123.04 | 0.0723 |
| 450 | 450 | 31.1 | 481 | 45 | 7 | 3.57 | 2.38 | 7.14 | 28.5 | 1485.2 | 107.47 | 0.0642 |
| 450 | 450 | 58.3 | 508 | 54 | 7 | 3.26 | 3.26 | 9.77 | 29.3 | 1699.1 | 138.42 | 0.0643 |
| 500 | 500 | 34.6 | 535 | 45 | 7 | 3.76 | 2.51 | 7.52 | 30.1 | 1650.2 | 199.41 | 0.0578 |
| 500 | 500 | 64.8 | 565 | 54 | 7 | 3.43 | 3.43 | 10.3 | 30.9 | 1887.9 | 153.80 | 0.0578 |
| 560 | 560 | 38.7 | 599 | 45 | 7 | 3.98 | 2.65 | 7.96 | 31.8 | 1848.2 | 133.74 | 0.0516 |
| 560 | 560 | 70.9 | 631 | 54 | 19 | 3.63 | 2.18 | 10.9 | 32.7 | 2103.4 | 172.59 | 0.0516 |
| 630 | 630 | 43.6 | 674 | 45 | 7 | 4.22 | 2.81 | 8.44 | 33.8 | 2079.2 | 150.45 | 0.0459 |
| 630 | 630 | 79.8 | 710 | 54 | 19 | 3.85 | 2.31 | 11.6 | 34.7 | 2366.3 | 191.77 | 0.0459 |
| 710 | 710 | 49.1 | 759 | 45 | 7 | 4.48 | 2.99 | 8.96 | 35.9 | 2343.2 | 169.56 | 0.0407 |
| 710 | 710 | 89.9 | 800 | 54 | 19 | 4.09 | 2.45 | 12.3 | 36.8 | 2666.8 | 216.12 | 0.0407 |
| 800 | 800 | 34.6 | 835 | 72 | 7 | 3.76 | 2.51 | 7.52 | 37.6 | 2480.2 | 167.41 | 0.0361 |
| 800 | 800 | 66.7 | 867 | 84 | 7 | 3.48 | 3.48 | 10.4 | 38.3 | 2732.7 | 205.33 | 0.0362 |
| 800 | 800 | 101 | 901 | 54 | 19 | 4.44 | 2.61 | 13.0 | 39.1 | 3004.9 | 243.52 | 0.0362 |
| 900 | 900 | 38.9 | 939 | 72 | 7 | 3.99 | 2.66 | 7.98 | 39.9 | 2790.2 | 188.33 | 0.0321 |
| 900 | 900 | 75.0 | 975 | 84 | 7 | 3.69 | 3.69 | 11.1 | 40.6 | 3074.2 | 226.50 | 0.0322 |
| 1000 | 1000 | 43.2 | 1043 | 72 | 7 | 4.21 | 2.80 | 8.41 | 42.1 | 3100.3 | 209.26 | 0.0289 |
| 1120 | 1120 | 47.3 | 1167 | 72 | 19 | 4.45 | 1.78 | 8.90 | 44.5 | 3464.9 | 234.53 | 0.0258 |
| 1120 | 1120 | 91.2 | 1211 | 84 | 19 | 4.12 | 2.47 | 12.4 | 45.3 | 3811.5 | 283.17 | 0.0258 |
| 1250 | 1250 | 102 | 1352 | 84 | 19 | 4.35 | 2.61 | 13.1 | 47.9 | 4253.9 | 316.04 | 0.0232 |
| 1250 | 1250 | 52.8 | 1303 | 72 | 19 | 4.70 | 1.88 | 9.40 | 47.0 | 3867.1 | 261.75 | 0.0231 |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR (Characteristics of A1/S2A Conductor)**

IEC 61089

| Code Number | Area | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|-------|----------|-------|-------------|----------------|------------------------------|
| | Alum. | Steel | Total | Al. | St. | Alum. | Steel | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 16 | 2.67 | 18.7 | 6 | 1 | 1.84 | 1.84 | 1.84 | 5.53 | 64.6 | 6.45 | 1.7934 |
| 25 | 25 | 4.17 | 29.2 | 6 | 1 | 2.30 | 2.30 | 2.30 | 6.91 | 100.9 | 9.71 | 1.1478 |
| 40 | 40 | 6.67 | 46.7 | 6 | 1 | 2.91 | 2.91 | 2.91 | 8.74 | 161.5 | 15.33 | 0.7174 |
| 63 | 63 | 10.5 | 73.5 | 6 | 1 | 3.66 | 3.66 | 3.66 | 11.0 | 254.4 | 22.37 | 0.4555 |
| 100 | 100 | 16.7 | 117 | 6 | 1 | 4.61 | 4.61 | 4.61 | 13.8 | 403.8 | 35.50 | 0.2869 |
| 125 | 125 | 6.94 | 132 | 18 | 1 | 2.97 | 2.97 | 2.97 | 14.9 | 397.9 | 30.14 | 0.2304 |
| 125 | 125 | 20.4 | 145 | 26 | 7 | 2.47 | 1.92 | 5.77 | 15.7 | 503.9 | 48.54 | 0.2310 |
| 160 | 160 | 8.89 | 169 | 18 | 1 | 3.36 | 3.36 | 3.36 | 16.8 | 509.3 | 37.42 | 0.1800 |
| 160 | 160 | 26.1 | 186 | 26 | 7 | 2.80 | 6.53 | 6.53 | 17.7 | 644.9 | 61.34 | 0.1805 |
| 200 | 200 | 11.1 | 211 | 18 | 1 | 3.76 | 3.76 | 3.76 | 18.8 | 636.7 | 45.00 | 0.1440 |
| 200 | 200 | 32.6 | 233 | 26 | 7 | 3.13 | 7.30 | 7.30 | 19.8 | 806.2 | 74.69 | 0.1444 |
| 250 | 250 | 24.6 | 275 | 22 | 7 | 3.80 | 6.34 | 6.34 | 21.6 | 880.6 | 72.16 | 0.1154 |
| 250 | 250 | 40.7 | 291 | 26 | 7 | 3.50 | 8.16 | 8.16 | 22.2 | 1007.7 | 93.37 | 0.1155 |
| 315 | 315 | 21.8 | 337 | 45 | 7 | 2.99 | 5.97 | 5.97 | 23.9 | 1039.3 | 82.08 | 0.0917 |
| 315 | 315 | 51.3 | 366 | 26 | 7 | 3.93 | 9.16 | 9.16 | 24.9 | 1269.7 | 114.02 | 0.0917 |
| 400 | 400 | 27.7 | 428 | 45 | 7 | 3.36 | 6.73 | 6.73 | 26.9 | 1320.1 | 102.23 | 0.0722 |
| 400 | 400 | 51.9 | 452 | 54 | 7 | 3.07 | 9.21 | 9.21 | 27.6 | 1510.3 | 130.30 | 0.0723 |
| 450 | 450 | 31.1 | 481 | 45 | 7 | 3.57 | 7.14 | 7.14 | 28.5 | 1485.2 | 111.82 | 0.0642 |
| 450 | 450 | 58.3 | 508 | 54 | 7 | 3.26 | 9.77 | 9.77 | 29.3 | 1699.1 | 146.58 | 0.0643 |
| 500 | 500 | 34.6 | 535 | 45 | 7 | 3.76 | 7.52 | 7.52 | 30.1 | 1650.2 | 124.25 | 0.0578 |
| 500 | 500 | 64.8 | 565 | 54 | 7 | 3.43 | 10.3 | 10.3 | 30.9 | 1887.9 | 162.87 | 0.0578 |
| 560 | 560 | 38.7 | 599 | 45 | 7 | 3.98 | 7.96 | 7.96 | 31.8 | 1848.2 | 139.16 | 0.0516 |
| 560 | 560 | 70.9 | 631 | 54 | 19 | 3.63 | 10.9 | 10.9 | 32.7 | 2103.4 | 182.52 | 0.0516 |
| 630 | 630 | 43.6 | 674 | 45 | 7 | 4.22 | 8.44 | 8.44 | 33.8 | 2079.2 | 156.55 | 0.0459 |
| 630 | 630 | 79.8 | 710 | 54 | 19 | 3.85 | 11.6 | 11.6 | 34.7 | 2366.3 | 202.94 | 0.0459 |
| 710 | 710 | 49.1 | 759 | 45 | 7 | 4.48 | 8.96 | 8.96 | 35.9 | 2343.2 | 176.43 | 0.0407 |
| 710 | 710 | 89.9 | 800 | 54 | 19 | 4.09 | 12.3 | 12.3 | 36.8 | 2666.8 | 228.71 | 0.0407 |
| 800 | 800 | 34.6 | 835 | 72 | 7 | 3.76 | 7.52 | 7.52 | 37.6 | 2480.2 | 172.25 | 0.0361 |
| 800 | 800 | 66.7 | 867 | 84 | 7 | 3.48 | 10.4 | 10.4 | 38.3 | 2732.7 | 214.67 | 0.0362 |
| 800 | 800 | 101 | 901 | 54 | 19 | 4.34 | 13.0 | 13.0 | 39.1 | 3004.9 | 257.71 | 0.0362 |
| 900 | 900 | 38.9 | 939 | 72 | 7 | 3.99 | 7.98 | 7.98 | 39.9 | 2790.2 | 193.78 | 0.0321 |
| 900 | 900 | 75.0 | 975 | 84 | 7 | 3.69 | 11.1 | 11.1 | 40.6 | 3074.2 | 231.75 | 0.0322 |
| 1000 | 1000 | 43.2 | 1043 | 72 | 7 | 4.21 | 8.41 | 8.41 | 42.1 | 3100.3 | 215.31 | 0.0289 |
| 1120 | 1120 | 47.3 | 1167 | 72 | 19 | 4.45 | 8.90 | 8.90 | 44.5 | 3464.9 | 241.15 | 0.0258 |
| 1120 | 1120 | 91.2 | 1211 | 84 | 19 | 4.12 | 12.4 | 12.4 | 45.3 | 3811.5 | 295.94 | 0.0258 |
| 1250 | 1250 | 52.8 | 1303 | 72 | 19 | 4.70 | 9.40 | 9.40 | 47.0 | 3867.1 | 269.14 | 0.0231 |
| 1250 | 1250 | 102 | 1352 | 84 | 19 | 4.35 | 13.1 | 13.1 | 47.9 | 4253.9 | 330.29 | 0.0232 |

**ALUMINIUM CONDUCTOR STEEL REINFORCED
ACSR (Characteristics of A1/S3A Conductor)**

IEC 61089

| Code Number | Area | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|-------|----------|-------|-------------|----------------|------------------------------|
| | Alum. | Steel | Total | Al. | St. | Alum. | Steel | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 16 | 2.67 | 18.7 | 6 | 1 | 1.84 | 1.84 | 1.84 | 5.53 | 64.6 | 6.83 | 1.7934 |
| 25 | 25 | 4.17 | 29.2 | 6 | 1 | 2.30 | 2.30 | 2.30 | 6.91 | 100.9 | 10.25 | 1.1478 |
| 40 | 40 | 6.67 | 46.7 | 6 | 1 | 2.91 | 2.91 | 2.91 | 8.74 | 161.5 | 16.20 | 0.7174 |
| 63 | 63 | 10.5 | 73.5 | 6 | 1 | 3.66 | 3.66 | 3.66 | 11.0 | 254.4 | 24.15 | 0.4555 |
| 100 | 100 | 16.7 | 117 | 6 | 1 | 4.61 | 4.61 | 4.61 | 13.8 | 403.8 | 38.33 | 0.2869 |
| 125 | 125 | 6.94 | 132 | 18 | 1 | 2.97 | 2.97 | 2.97 | 14.9 | 397.9 | 31.04 | 0.2304 |
| 125 | 125 | 20.4 | 145 | 26 | 7 | 2.47 | 1.92 | 5.77 | 15.7 | 503.9 | 51.39 | 0.2310 |
| 160 | 160 | 8.89 | 169 | 18 | 1 | 3.36 | 3.36 | 3.36 | 16.8 | 509.3 | 38.67 | 0.1800 |
| 160 | 160 | 26.1 | 186 | 26 | 7 | 2.80 | 2.80 | 6.53 | 17.7 | 644.9 | 64.99 | 0.1805 |
| 200 | 200 | 11.1 | 211 | 18 | 1 | 3.76 | 3.76 | 3.76 | 18.8 | 636.7 | 46.89 | 0.1440 |
| 200 | 200 | 32.6 | 233 | 26 | 7 | 3.13 | 5.43 | 7.30 | 19.8 | 806.2 | 78.93 | 0.1444 |
| 250 | 250 | 24.6 | 275 | 22 | 7 | 3.80 | 2.11 | 6.34 | 21.6 | 880.6 | 75.60 | 0.1154 |
| 250 | 250 | 40.7 | 291 | 26 | 7 | 3.50 | 2.72 | 8.16 | 22.2 | 1007.7 | 98.66 | 0.1155 |
| 315 | 315 | 21.8 | 337 | 45 | 7 | 2.99 | 1.99 | 5.97 | 23.9 | 1039.3 | 85.13 | 0.0917 |
| 315 | 315 | 51.3 | 366 | 26 | 7 | 3.93 | 3.05 | 9.16 | 24.9 | 1269.7 | 121.20 | 0.0917 |
| 400 | 400 | 27.7 | 428 | 45 | 7 | 3.36 | 2.24 | 6.73 | 26.9 | 1320.1 | 106.10 | 0.0722 |
| 400 | 400 | 51.9 | 452 | 54 | 7 | 3.07 | 3.07 | 9.21 | 27.6 | 1510.3 | 137.56 | 0.0723 |
| 450 | 450 | 31.1 | 481 | 45 | 7 | 3.57 | 2.38 | 7.14 | 28.5 | 1485.2 | 115.87 | 0.0642 |
| 450 | 450 | 58.3 | 508 | 54 | 7 | 3.26 | 3.26 | 9.77 | 29.3 | 1699.1 | 154.75 | 0.0643 |
| 500 | 500 | 34.6 | 535 | 45 | 7 | 3.76 | 2.51 | 7.52 | 30.1 | 1650.2 | 128.74 | 0.0578 |
| 500 | 500 | 64.8 | 565 | 54 | 7 | 3.43 | 3.43 | 10.3 | 30.9 | 1887.9 | 171.94 | 0.0578 |
| 560 | 560 | 38.7 | 599 | 45 | 7 | 3.98 | 2.65 | 7.96 | 31.8 | 1848.2 | 144.19 | 0.0516 |
| 560 | 560 | 70.9 | 631 | 54 | 19 | 3.63 | 2.18 | 10.9 | 32.7 | 2103.4 | 192.45 | 0.0516 |
| 630 | 630 | 43.6 | 674 | 45 | 7 | 4.22 | 2.81 | 8.44 | 33.8 | 2079.2 | 162.21 | 0.0459 |
| 630 | 630 | 79.8 | 710 | 54 | 19 | 3.85 | 2.31 | 11.6 | 34.7 | 2366.3 | 213.31 | 0.0459 |
| 710 | 710 | 49.1 | 759 | 45 | 7 | 4.48 | 2.99 | 8.96 | 35.9 | 2343.2 | 182.81 | 0.0407 |
| 710 | 710 | 89.9 | 800 | 54 | 19 | 4.09 | 2.45 | 12.3 | 36.8 | 2666.8 | 240.41 | 0.0407 |
| 800 | 800 | 34.6 | 835 | 72 | 7 | 3.76 | 2.51 | 7.52 | 37.6 | 2480.2 | 176.74 | 0.0361 |
| 800 | 800 | 66.7 | 867 | 84 | 7 | 3.48 | 3.48 | 10.4 | 38.3 | 2732.7 | 224.00 | 0.0362 |
| 800 | 800 | 101 | 901 | 54 | 19 | 4.43 | 2.61 | 13.0 | 39.1 | 3004.9 | 270.88 | 0.0362 |
| 900 | 900 | 38.9 | 939 | 72 | 7 | 3.99 | 2.66 | 7.98 | 39.9 | 2790.2 | 198.83 | 0.0321 |
| 900 | 900 | 75.0 | 975 | 84 | 7 | 3.69 | 3.69 | 11.1 | 40.6 | 3074.2 | 244.50 | 0.0322 |
| 1000 | 1000 | 43.2 | 1043 | 72 | 7 | 4.21 | 2.80 | 8.41 | 42.1 | 3100.3 | 220.93 | 0.0289 |
| 1120 | 1120 | 47.3 | 1167 | 72 | 19 | 4.45 | 1.78 | 8.90 | 44.5 | 3464.9 | 247.77 | 0.0258 |
| 1120 | 1120 | 91.2 | 1211 | 84 | 19 | 4.12 | 2.47 | 12.4 | 45.3 | 3811.5 | 307.79 | 0.0258 |
| 1250 | 1250 | 52.8 | 1303 | 72 | 19 | 4.70 | 1.88 | 9.40 | 47.0 | 3867.1 | 276.53 | 0.0231 |
| 1250 | 1250 | 102 | 1352 | 84 | 19 | 4.35 | 2.61 | 13.1 | 47.9 | 4253.9 | 343.52 | 0.0232 |

ALUMINIUM CONDUCTOR STEEL REINFORCED DIAMETER-EXTENDED ACSR

Diameter-extended ACSR is mainly used in flexible busbar for 500kV power substation. The specification is 630 mm²~1250 mm², and the allowable temperature is 80℃. The support of aluminium wires extend the outside diameter reducing the strength of electric field on the surface of conductor and the power loss of corona, meanwhile decreasing radio interference. Diameter-extended ACSR can be used in high altitudes, with high strength, anticorrosion, long performance life characteristics. Meanwhile it can improve quality connection of T joint.

| Nominal Area | Overall Dia. | Calculated Area | | | Number of Wire/Diameter | | | | | Rated Tensile Strength | Max D.C. Resistance at 20℃ | Current Capacity | Weight |
|-----------------|--------------|-----------------|-----------------|-----------------|-------------------------|-------------|------------------|------------------|-------------|------------------------|----------------------------|------------------|--------|
| | | Alum | Steel | Total | Steel Layer | Inner Layer | Near Inner Layer | Near Outer Layer | Outer Layer | | | | |
| mm ² | mm | mm ² | mm ² | mm ² | | | | | | kN | Ω/km | A | kg/km |
| 630 | 48 | 535.43 | 152.81 | 788.24 | 19/3.2 | 4/4.55 | 4/4.55 | 11/3.70 | 36/3.70 | 228 | 0.046433 | 815 | 2994 |
| 800 | 49 | 813.42 | 152.81 | 966.23 | 19/3.2 | 4/4.50 | 4/4.60 | 24/3.80 | 36/3.80 | 253 | 0.036179 | 904 | 3491 |
| 1000 | 51 | 1001.40 | 152.81 | 1154.21 | 19/3.2 | 4/4.35 | 4/4.55 | 27/4.30 | 36/4.30 | 278 | 0.029314 | 1000 | 4013 |
| 1250 | 52 | 1259.14 | 152.81 | 1411.95 | 19/3.2 | 4/4.60 | 18/4.47 | 26/4.47 | 32/4.47 | 313 | 0.023161 | 1147 | 4713 |
| 1400 | 51 | 1399.60 | 134.30 | 1533.90 | 19/3.0 | 13/4.5 | 19/4.5 | 25/4.50 | 31/4.50 | 329 | 0.02133 | 1160 | 4962 |



ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED AACSR (JLHA1/G1A)

Chinese Standard GB/T 1179-2008

| Nominal Area Al./St. | Steel Ratio | Calculated Area | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20℃ |
|----------------------|-------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|-----------------------------|
| | | Al. | St. | Total | Al. | St. | Al. | St. | Steel | Cond. | | | |
| mm ² | % | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 10/2 | 17 | 10.60 | 1.77 | 12.37 | 6 | 1 | 1.50 | 1.50 | 1.50 | 4.50 | 42.8 | 5.51 | 3.1444 |
| 16/3 | 17 | 16.13 | 2.69 | 18.82 | 6 | 1 | 1.85 | 1.85 | 1.85 | 5.55 | 65.1 | 8.39 | 2.0671 |
| 25/4 | 17 | 25.36 | 4.23 | 29.59 | 6 | 1 | 2.32 | 2.32 | 2.32 | 6.96 | 102.4 | 13.06 | 1.3144 |
| 35/6 | 17 | 34.86 | 5.81 | 40.67 | 6 | 1 | 2.72 | 2.72 | 2.72 | 8.16 | 140.8 | 17.96 | 0.9563 |
| 50/8 | 17 | 48.25 | 8.04 | 56.30 | 6 | 1 | 3.20 | 3.20 | 3.20 | 9.60 | 194.8 | 24.53 | 0.6909 |
| 50/30 | 58 | 50.73 | 29.59 | 80.32 | 12 | 7 | 2.32 | 2.32 | 6.96 | 11.6 | 371.1 | 50.22 | 0.6614 |
| 70/10 | 17 | 68.05 | 11.34 | 79.39 | 6 | 1 | 3.80 | 3.80 | 3.80 | 11.4 | 274.8 | 33.91 | 0.4899 |
| 70/40 | 58 | 69.73 | 40.67 | 110.40 | 12 | 7 | 2.72 | 2.72 | 8.16 | 13.6 | 510.2 | 69.03 | 0.4812 |
| 95/15 | 16 | 94.39 | 15.33 | 109.73 | 26 | 7 | 2.15 | 1.67 | 5.01 | 13.6 | 380.2 | 48.62 | 0.3554 |
| 95/55 | 58 | 96.51 | 56.30 | 152.81 | 12 | 7 | 3.20 | 3.20 | 9.60 | 16.0 | 706.1 | 93.29 | 0.3477 |
| 120/7 | 6 | 118.89 | 6.61 | 125.50 | 18 | 1 | 2.90 | 2.90 | 8.70 | 14.5 | 378.5 | 46.17 | 0.2815 |
| 120/20 | 16 | 115.67 | 18.82 | 134.49 | 26 | 7 | 2.38 | 1.85 | 5.55 | 15.1 | 466.1 | 59.61 | 0.2900 |
| 120/70 | 58 | 122.15 | 70.25 | 193.40 | 12 | 7 | 3.60 | 3.60 | 10.8 | 18.0 | 893.7 | 116.85 | 0.2747 |
| 150/8 | 6 | 144.76 | 8.04 | 152.81 | 18 | 1 | 3.20 | 3.20 | 3.20 | 16.0 | 460.9 | 55.90 | 0.2312 |
| 150/25 | 16 | 148.86 | 24.25 | 173.11 | 26 | 7 | 2.70 | 2.10 | 6.30 | 17.1 | 600.1 | 76.75 | 0.2254 |
| 185/10 | 6 | 183.22 | 10.18 | 193.40 | 18 | 1 | 3.60 | 3.60 | 3.60 | 18.0 | 583.3 | 68.91 | 0.1826 |
| 210/10 | 6 | 204.14 | 11.34 | 215.48 | 18 | 1 | 3.80 | 3.80 | 3.80 | 19.0 | 649.9 | 76.78 | 0.1639 |
| 210/35 | 16 | 211.73 | 34.36 | 246.09 | 26 | 7 | 3.22 | 2.50 | 7.50 | 20.4 | 852.5 | 107.98 | 0.1585 |
| 240/30 | 13 | 244.29 | 31.67 | 275.96 | 24 | 7 | 3.60 | 2.40 | 7.20 | 21.6 | 920.7 | 113.05 | 0.1372 |
| 240/40 | 16 | 238.84 | 38.90 | 277.74 | 26 | 7 | 3.42 | 2.66 | 7.98 | 21.7 | 962.8 | 121.97 | 0.1405 |
| 300/20 | 7 | 303.42 | 20.91 | 324.32 | 45 | 7 | 2.93 | 1.95 | 5.85 | 23.4 | 1000.8 | 123.07 | 0.1106 |
| 300/50 | 16 | 299.54 | 48.82 | 348.37 | 26 | 7 | 3.83 | 2.98 | 8.94 | 24.3 | 1207.7 | 150.01 | 0.1120 |
| 300/70 | 23 | 305.36 | 71.25 | 376.61 | 30 | 7 | 3.60 | 3.60 | 10.8 | 25.2 | 1399.6 | 174.57 | 0.1099 |
| 400/25 | 7 | 391.91 | 27.10 | 419.01 | 45 | 7 | 3.33 | 2.22 | 6.66 | 26.6 | 1293.5 | 159.07 | 0.0857 |
| 400/50 | 13 | 399.72 | 51.82 | 451.54 | 54 | 7 | 3.07 | 3.07 | 9.21 | 27.6 | 1509.3 | 186.91 | 0.0841 |
| 400/95 | 23 | 407.75 | 93.27 | 501.02 | 30 | 19 | 4.16 | 2.50 | 12.5 | 29.1 | 1856.7 | 234.77 | 0.0823 |
| 500/35 | 7 | 497.01 | 34.36 | 531.37 | 45 | 7 | 3.75 | 2.50 | 7.50 | 30.0 | 1640.3 | 195.73 | 0.0675 |
| 500/65 | 13 | 501.88 | 65.06 | 566.94 | 54 | 7 | 3.44 | 3.44 | 10.3 | 31.0 | 1895.0 | 234.68 | 0.0670 |
| 630/45 | 7 | 623.45 | 43.10 | 666.55 | 45 | 7 | 4.20 | 2.80 | 8.40 | 33.6 | 2057.6 | 245.52 | 0.0538 |
| 630/80 | 13 | 635.19 | 80.32 | 715.51 | 54 | 19 | 3.87 | 2.32 | 11.6 | 34.8 | 2384.7 | 291.65 | 0.0529 |
| 800/55 | 7 | 814.30 | 56.30 | 870.60 | 45 | 7 | 4.80 | 3.20 | 9.60 | 38.4 | 2687.5 | 318.43 | 0.0412 |
| 800/100 | 13 | 795.17 | 100.88 | 896.05 | 54 | 19 | 4.33 | 2.60 | 13.0 | 39.0 | 2987.8 | 365.48 | 0.0423 |
| 1000/45 | 4 | 1002.27 | 43.10 | 1045.38 | 72 | 7 | 4.21 | 2.80 | 8.40 | 42.1 | 3106.8 | 364.85 | 0.0335 |
| 1000/125 | 13 | 993.51 | 125.50 | 1119.01 | 54 | 19 | 4.84 | 2.90 | 14.5 | 43.5 | 3728.9 | 456.03 | 0.0338 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED
 AACSR (JLHA2/G1A)

Chinese Standard GB/T 1179-2008

| Nominal Area Al/St. | Steel Ratio | Calculated Area | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|------------------------|-------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|------------------------------|
| | | Al. | St. | Total | Al. | St. | Al. | St. | Steel | Cond. | | | |
| mm ² | % | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 10/2 | 17 | 10.60 | 1.77 | 12.37 | 6 | 1 | 1.50 | 1.50 | 1.50 | 4.50 | 42.8 | 5.20 | 3.1147 |
| 16/3 | 17 | 16.13 | 2.69 | 18.82 | 6 | 1 | 1.85 | 1.85 | 1.85 | 5.55 | 65.1 | 7.90 | 2.0476 |
| 25/4 | 17 | 25.36 | 4.23 | 29.59 | 6 | 1 | 2.32 | 2.32 | 2.32 | 6.96 | 102.4 | 12.30 | 1.3020 |
| 35/6 | 17 | 34.86 | 5.81 | 40.67 | 6 | 1 | 2.72 | 2.72 | 2.72 | 8.16 | 140.8 | 16.91 | 0.9472 |
| 50/30 | 58 | 50.73 | 29.59 | 80.32 | 12 | 7 | 2.32 | 2.32 | 6.96 | 11.6 | 371.1 | 48.70 | 0.6552 |
| 70/10 | 17 | 68.05 | 11.34 | 79.39 | 6 | 1 | 3.80 | 3.80 | 3.80 | 11.4 | 274.8 | 32.55 | 0.4853 |
| 70/40 | 58 | 69.73 | 40.67 | 110.40 | 12 | 7 | 2.72 | 2.72 | 8.16 | 13.6 | 510.2 | 66.94 | 0.4766 |
| 95/15 | 16 | 94.39 | 15.33 | 109.73 | 26 | 7 | 2.15 | 1.67 | 5.01 | 13.6 | 380.2 | 45.79 | 0.3521 |
| 95/55 | 58 | 96.51 | 56.30 | 152.81 | 12 | 7 | 3.20 | 3.20 | 9.60 | 16.0 | 706.1 | 90.40 | 0.3444 |
| 120/7 | 6 | 118.89 | 6.61 | 125.50 | 18 | 1 | 2.90 | 2.90 | 8.70 | 14.5 | 378.5 | 42.60 | 0.2788 |
| 120/20 | 16 | 115.67 | 18.82 | 134.49 | 26 | 7 | 2.38 | 1.85 | 5.55 | 15.1 | 466.1 | 56.14 | 0.2873 |
| 120/70 | 58 | 122.15 | 71.25 | 193.40 | 12 | 7 | 3.60 | 3.60 | 10.8 | 18.0 | 893.7 | 114.41 | 0.2721 |
| 150/8 | 6 | 144.76 | 8.04 | 152.81 | 18 | 1 | 3.20 | 3.20 | 3.20 | 16.0 | 460.9 | 51.55 | 0.2290 |
| 150/25 | 16 | 148.86 | 24.25 | 173.11 | 26 | 7 | 2.70 | 2.10 | 6.30 | 17.1 | 600.1 | 72.28 | 0.2232 |
| 210/10 | 6 | 204.14 | 11.34 | 215.48 | 18 | 1 | 3.80 | 3.80 | 3.80 | 19.0 | 649.9 | 72.70 | 0.1624 |
| 210/35 | 16 | 211.73 | 34.36 | 246.09 | 26 | 7 | 3.22 | 2.50 | 7.50 | 20.4 | 852.5 | 101.63 | 0.1570 |
| 240/30 | 13 | 244.29 | 31.67 | 275.96 | 24 | 7 | 3.60 | 2.40 | 7.20 | 21.6 | 920.7 | 108.17 | 0.1359 |
| 240/40 | 16 | 238.84 | 38.90 | 277.74 | 26 | 7 | 3.42 | 2.66 | 7.98 | 21.7 | 962.8 | 114.81 | 0.1391 |
| 300/20 | 7 | 303.42 | 20.91 | 324.32 | 45 | 7 | 2.93 | 1.95 | 5.85 | 23.4 | 1000.8 | 113.97 | 0.1096 |
| 300/50 | 16 | 299.54 | 48.82 | 348.37 | 26 | 7 | 3.83 | 2.98 | 8.94 | 24.3 | 1207.7 | 144.02 | 0.1109 |
| 300/70 | 23 | 305.36 | 71.25 | 376.61 | 30 | 7 | 3.60 | 3.60 | 10.8 | 25.2 | 1399.6 | 168.46 | 0.1089 |
| 400/25 | 7 | 391.91 | 27.10 | 419.01 | 45 | 7 | 3.33 | 2.22 | 6.66 | 26.6 | 1293.5 | 147.32 | 0.0849 |
| 400/50 | 13 | 399.72 | 51.82 | 451.54 | 54 | 7 | 3.07 | 3.07 | 9.21 | 27.6 | 1509.3 | 174.92 | 0.0833 |
| 400/95 | 23 | 407.75 | 93.27 | 501.02 | 30 | 19 | 4.16 | 2.50 | 12.5 | 29.1 | 1856.7 | 226.61 | 0.0816 |
| 500/35 | 7 | 497.01 | 34.36 | 531.37 | 45 | 7 | 3.75 | 2.50 | 7.50 | 30.0 | 1640.3 | 185.79 | 0.0669 |
| 500/65 | 13 | 501.88 | 65.06 | 566.94 | 54 | 7 | 3.44 | 3.44 | 10.3 | 31.0 | 1895.0 | 219.62 | 0.0663 |
| 630/45 | 7 | 623.45 | 43.10 | 666.55 | 45 | 7 | 4.20 | 2.80 | 8.40 | 33.6 | 2057.6 | 233.05 | 0.0533 |
| 630/80 | 13 | 635.19 | 80.32 | 715.51 | 54 | 19 | 3.87 | 2.32 | 11.6 | 34.8 | 2384.7 | 278.95 | 0.0524 |
| 800/55 | 7 | 814.30 | 56.30 | 870.60 | 45 | 7 | 4.80 | 3.20 | 9.60 | 38.4 | 2687.5 | 302.15 | 0.0408 |
| 800/100 | 13 | 795.17 | 100.88 | 896.05 | 54 | 19 | 4.33 | 2.60 | 13.0 | 39.0 | 2987.8 | 349.57 | 0.0419 |
| 1000/45 | 4 | 1002.27 | 43.10 | 1045.38 | 72 | 7 | 4.21 | 2.80 | 8.40 | 42.1 | 3106.8 | 344.81 | 0.0332 |
| 1000/125 | 13 | 993.51 | 125.50 | 1119.01 | 54 | 19 | 4.84 | 2.90 | 14.5 | 43.5 | 3728.9 | 436.16 | 0.0335 |

 ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED
 AACSR

ASTM B711

| Nominal Area | Alloy Area | Steel Area | Number of Alloy Wires | Diameter of Alloy Wire | Number of Steel Wires | Diameter of Steel Wire | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|--------------|------------|------------|-----------------------|------------------------|-----------------------|------------------------|------------------|-------------|------------------------|------------------------------|
| | | | | | | | | | | |
| 163 | 140 | 23 | 26 | 2.62 | 7 | 2.04 | 16.6 | 560 | 7500 | 0.240 |
| 173 | 140 | 33 | 30 | 2.44 | 7 | 2.44 | 17.1 | 650 | 8740 | 0.240 |
| 186 | 160 | 26 | 26 | 2.80 | 7 | 2.18 | 17.7 | 645 | 8560 | 0.210 |
| 198 | 160 | 38 | 30 | 2.61 | 7 | 2.61 | 18.3 | 740 | 10600 | 0.210 |
| 209 | 180 | 29 | 26 | 2.97 | 7 | 2.31 | 18.8 | 725 | 9510 | 0.187 |
| 222 | 180 | 42 | 30 | 2.76 | 7 | 2.76 | 19.3 | 825 | 11200 | 0.187 |
| 232 | 200 | 32 | 26 | 3.13 | 7 | 2.43 | 19.8 | 800 | 10600 | 0.168 |
| 247 | 200 | 47 | 30 | 2.91 | 7 | 2.91 | 20.4 | 920 | 12400 | 0.168 |
| 260 | 224 | 36 | 26 | 3.31 | 7 | 2.57 | 21.0 | 900 | 11800 | 0.150 |
| 276 | 224 | 52 | 30 | 3.08 | 7 | 3.08 | 21.6 | 1025 | 13900 | 0.150 |
| 291 | 250 | 41 | 26 | 3.50 | 7 | 2.72 | 22.2 | 1010 | 12900 | 0.135 |
| 308 | 250 | 58 | 30 | 3.26 | 7 | 3.26 | 22.8 | 1145 | 15600 | 0.135 |
| 326 | 280 | 46 | 26 | 3.70 | 7 | 2.88 | 23.4 | 1140 | 14400 | 0.120 |
| 345 | 280 | 65 | 30 | 3.45 | 7 | 3.45 | 24.2 | 1280 | 17100 | 0.120 |
| 367 | 315 | 52 | 26 | 3.93 | 7 | 3.06 | 24.9 | 1276 | 16300 | 0.107 |
| 387 | 315 | 72 | 30 | 3.66 | 19 | 2.20 | 25.6 | 1433 | 19000 | 0.107 |
| 413 | 355 | 58 | 26 | 4.17 | 7 | 3.24 | 26.4 | 1433 | 18300 | 0.0950 |
| 436 | 355 | 81 | 30 | 3.88 | 19 | 2.33 | 27.2 | 1614 | 21100 | 0.0950 |
| 465 | 400 | 65 | 26 | 4.43 | 7 | 3.45 | 28.1 | 1612 | 20700 | 0.0842 |
| 491 | 400 | 91 | 30 | 4.12 | 19 | 2.47 | 28.8 | 1816 | 23700 | 0.0842 |
| 509 | 450 | 59 | 54 | 3.26 | 19 | 1.98 | 29.5 | 1703 | 21500 | 0.0748 |
| 563 | 500 | 63 | 54 | 3.43 | 19 | 2.06 | 30.9 | 1873 | 22900 | 0.0673 |
| 631 | 560 | 71 | 54 | 3.63 | 19 | 2.18 | 32.7 | 2101 | 25700 | 0.0601 |
| 710 | 630 | 80 | 54 | 3.85 | 19 | 2.31 | 34.6 | 2365 | 28600 | 0.0534 |
| 800 | 710 | 90 | 54 | 4.09 | 19 | 2.45 | 36.8 | 2665 | 32200 | 0.0474 |
| 901 | 800 | 101 | 54 | 4.34 | 19 | 2.60 | 39.0 | 3000 | 36300 | 0.0420 |
| 973 | 900 | 73 | 84 | 3.69 | 19 | 2.21 | 40.6 | 3062 | 35500 | 0.0374 |
| 1081 | 1000 | 81 | 84 | 3.89 | 19 | 2.33 | 42.8 | 3395 | 39100 | 0.0337 |
| 1211 | 1120 | 91 | 84 | 4.12 | 19 | 2.47 | 45.3 | 3803 | 43900 | 0.0300 |
| 1352 | 1250 | 102 | 84 | 4.35 | 19 | 2.61 | 47.8 | 4250 | 49000 | 0.0270 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED
AACSR

DIN 48206

| Nominal Area | Alloy Area | Steel Area | Number of Alloy Wires | Diameter of Alloy Wire | Number of Steel Wires | Diameter of Steel Wire | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------------|------------------------|-----------------------|------------------------|------------------|-------------|------------------------|------------------------------|
| mm ² | mm ² | mm ² | | mm | | mm | mm | kg/km | daN | Ω/km |
| 16/2.5 | 15.27 | 2.54 | 6 | 1.80 | 1 | 1.80 | 5.4 | 62 | 748 | 2.1800 |
| 25/4 | 23.86 | 3.98 | 6 | 2.25 | 1 | 2.25 | 6.8 | 97 | 1171 | 1.3952 |
| 35/6 | 34.35 | 5.73 | 6 | 2.70 | 1 | 2.70 | 8.1 | 140 | 1685 | 0.9689 |
| 44/32 | 43.98 | 31.67 | 14 | 2.00 | 7 | 2.40 | 11.2 | 373 | 5027 | 0.7625 |
| 50/8 | 48.25 | 8.04 | 6 | 3.20 | 1 | 3.20 | 9.6 | 196 | 2366 | 0.6898 |
| 50/30 | 51.17 | 29.85 | 12 | 2.33 | 7 | 2.33 | 11.7 | 378 | 5024 | 0.6547 |
| 70/12 | 69.89 | 11.40 | 26 | 1.85 | 7 | 1.44 | 11.7 | 284 | 3399 | 0.4791 |
| 95/15 | 94.39 | 15.33 | 26 | 2.15 | 7 | 1.67 | 13.6 | 383 | 4582 | 0.3547 |
| 95/55 | 96.51 | 56.30 | 12 | 3.20 | 7 | 3.20 | 16.0 | 714 | 9475 | 0.3471 |
| 105/75 | 105.67 | 75.55 | 14 | 3.10 | 19 | 2.25 | 17.5 | 899 | 12014 | 0.3174 |
| 120/20 | 121.57 | 19.85 | 26 | 2.44 | 7 | 1.90 | 15.5 | 494 | 5914 | 0.2754 |
| 120/70 | 122.15 | 71.25 | 12 | 3.60 | 7 | 3.60 | 18.0 | 904 | 11912 | 0.2742 |
| 125/30 | 127.92 | 29.85 | 30 | 2.33 | 7 | 2.33 | 16.3 | 590 | 7280 | 0.2621 |
| 150/25 | 148.86 | 24.25 | 26 | 2.70 | 7 | 2.10 | 17.1 | 604 | 7236 | 0.2249 |
| 170/40 | 171.77 | 40.08 | 30 | 2.70 | 7 | 2.70 | 18.9 | 794 | 9775 | 0.1952 |
| 185/30 | 183.78 | 29.85 | 26 | 3.00 | 7 | 2.33 | 19.0 | 744 | 8922 | 0.1822 |
| 210/35 | 209.10 | 34.09 | 26 | 3.20 | 7 | 2.49 | 20.3 | 848 | 10167 | 0.1601 |
| 210/50 | 212.06 | 49.48 | 30 | 3.00 | 7 | 3.00 | 21.0 | 979 | 12068 | 0.1581 |
| 230/30 | 230.91 | 29.85 | 24 | 3.50 | 7 | 2.33 | 21.0 | 874 | 10308 | 0.1449 |
| 240/40 | 243.05 | 39.49 | 26 | 3.45 | 7 | 2.68 | 21.8 | 985 | 11802 | 0.1378 |
| 265/35 | 263.66 | 34.09 | 24 | 3.74 | 7 | 2.49 | 22.4 | 998 | 11771 | 0.1269 |
| 300/50 | 304.26 | 49.48 | 26 | 3.86 | 7 | 3.00 | 24.5 | 1233 | 14779 | 0.1101 |
| 305/40 | 304.62 | 39.49 | 54 | 2.68 | 7 | 2.68 | 24.1 | 1155 | 13612 | 0.1101 |
| 340/30 | 339.29 | 29.85 | 48 | 3.00 | 7 | 2.33 | 25.0 | 1174 | 13494 | 0.0988 |
| 380/50 | 381.70 | 49.48 | 54 | 3.00 | 7 | 3.00 | 27.0 | 1448 | 17056 | 0.0879 |
| 385/35 | 386.04 | 34.09 | 48 | 3.20 | 7 | 2.49 | 26.7 | 1336 | 15369 | 0.0868 |
| 435/55 | 434.29 | 56.30 | 54 | 3.20 | 7 | 3.20 | 28.8 | 1647 | 19406 | 0.0772 |
| 450/40 | 448.71 | 39.49 | 48 | 3.45 | 7 | 2.68 | 28.7 | 1553 | 17848 | 0.0747 |
| 490/65 | 490.28 | 63.55 | 54 | 3.40 | 7 | 3.40 | 30.6 | 1860 | 21907 | 0.0684 |
| 550/70 | 549.65 | 71.25 | 54 | 3.60 | 7 | 3.60 | 32.4 | 2085 | 24560 | 0.0610 |
| 560/50 | 561.70 | 49.48 | 48 | 3.86 | 7 | 3.00 | 32.2 | 1943 | 22348 | 0.0597 |
| 680/85 | 678.58 | 85.95 | 54 | 4.00 | 19 | 2.40 | 36.0 | 2564 | 30084 | 0.0494 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED
AACSR (Characteristics of A2/S1 A Conductor)

IEC 61089

| Code Number | Areas | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|------------------------------|
| | Alloy | St. | Total | Alloy | St. | Alloy | St. | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.4 | 3.07 | 21.5 | 6 | 1 | 1.98 | 1.98 | 1.98 | 5.93 | 74.4 | 9.02 | 1.7934 |
| 25 | 28.8 | 4.80 | 33.6 | 6 | 1 | 2.47 | 2.47 | 2.47 | 7.41 | 116.2 | 13.96 | 1.1478 |
| 40 | 46.0 | 7.67 | 53.7 | 6 | 1 | 3.13 | 3.13 | 3.13 | 9.38 | 185.9 | 22.02 | 0.7174 |
| 63 | 72.5 | 12.1 | 84.6 | 6 | 1 | 3.92 | 3.92 | 3.92 | 11.8 | 292.8 | 34.68 | 0.4555 |
| 100 | 115 | 6.39 | 121 | 18 | 1 | 2.85 | 2.85 | 2.85 | 14.3 | 366.4 | 41.24 | 0.2880 |
| 125 | 144 | 7.99 | 152 | 18 | 1 | 3.19 | 3.19 | 3.19 | 16.0 | 458.0 | 51.23 | 0.2304 |
| 125 | 144 | 23.4 | 167 | 26 | 7 | 2.65 | 2.06 | 6.19 | 16.8 | 579.9 | 69.86 | 0.2310 |
| 160 | 184 | 10.2 | 194 | 18 | 1 | 3.61 | 3.61 | 3.61 | 18.0 | 586.2 | 65.58 | 0.1800 |
| 160 | 184 | 30.0 | 214 | 26 | 7 | 3.00 | 2.34 | 7.01 | 19.0 | 742.3 | 88.52 | 0.1805 |
| 200 | 230 | 12.8 | 243 | 18 | 1 | 4.04 | 4.04 | 4.04 | 20.2 | 732.8 | 81.97 | 0.1440 |
| 200 | 230 | 37.5 | 268 | 26 | 7 | 3.36 | 2.61 | 7.83 | 21.3 | 927.9 | 110.64 | 0.1444 |
| 250 | 288 | 28.3 | 316 | 22 | 7 | 4.08 | 2.27 | 6.80 | 23.1 | 1013.5 | 117.09 | 0.1154 |
| 250 | 288 | 46.9 | 335 | 26 | 7 | 3.75 | 2.92 | 8.76 | 23.8 | 1159.6 | 138.31 | 0.1155 |
| 315 | 363 | 25.1 | 388 | 45 | 7 | 3.20 | 2.14 | 6.41 | 25.8 | 1196.5 | 136.28 | 0.0917 |
| 315 | 363 | 59.0 | 422 | 26 | 7 | 4.21 | 3.28 | 9.83 | 26.7 | 1461.4 | 171.90 | 0.0917 |
| 400 | 460 | 31.8 | 492 | 45 | 7 | 3.61 | 2.41 | 7.22 | 28.9 | 1519.4 | 172.10 | 0.0722 |
| 400 | 460 | 59.7 | 520 | 54 | 7 | 3.29 | 3.29 | 9.88 | 29.7 | 1738.3 | 201.46 | 0.0723 |
| 450 | 518 | 35.8 | 554 | 45 | 7 | 3.83 | 2.55 | 7.66 | 30.6 | 1709.3 | 193.61 | 0.0642 |
| 450 | 518 | 67.1 | 585 | 54 | 7 | 3.49 | 3.49 | 10.5 | 31.5 | 1955.6 | 226.64 | 0.0643 |
| 500 | 575 | 39.8 | 615 | 45 | 7 | 4.04 | 2.69 | 8.07 | 32.3 | 1899.3 | 215.12 | 0.0578 |
| 500 | 575 | 74.6 | 650 | 54 | 7 | 3.68 | 3.68 | 11.1 | 33.2 | 2172.9 | 251.82 | 0.0578 |
| 560 | 645 | 44.6 | 689 | 45 | 7 | 4.27 | 2.85 | 8.54 | 34.2 | 2127.2 | 240.93 | 0.0516 |
| 560 | 645 | 81.6 | 726 | 54 | 19 | 3.90 | 2.34 | 11.7 | 35.1 | 2420.9 | 283.21 | 0.0516 |
| 630 | 725 | 31.3 | 756 | 72 | 7 | 3.58 | 2.39 | 7.16 | 35.8 | 2248.0 | 249.62 | 0.0459 |
| 630 | 725 | 91.8 | 817 | 54 | 19 | 4.13 | 2.48 | 12.4 | 37.2 | 2723.5 | 318.61 | 0.0459 |
| 710 | 817 | 35.3 | 852 | 72 | 7 | 3.80 | 2.53 | 7.60 | 38.0 | 2533.4 | 281.32 | 0.0407 |
| 710 | 817 | 104 | 921 | 54 | 19 | 4.39 | 2.63 | 13.2 | 39.5 | 3069.4 | 359.06 | 0.0407 |
| 800 | 921 | 39.8 | 961 | 72 | 7 | 4.04 | 2.69 | 8.07 | 40.4 | 2854.6 | 316.98 | 0.0361 |
| 800 | 921 | 76.7 | 997 | 84 | 7 | 3.74 | 3.74 | 11.2 | 41.1 | 3145.1 | 356.03 | 0.0362 |
| 900 | 1036 | 44.8 | 1081 | 72 | 7 | 4.28 | 2.85 | 8.56 | 42.8 | 3211.4 | 356.60 | 0.0321 |
| 900 | 1036 | 86.3 | 1122 | 84 | 7 | 3.96 | 3.96 | 11.9 | 43.6 | 3538.3 | 400.53 | 0.0322 |
| 1000 | 1151 | 93.7 | 1245 | 84 | 19 | 4.18 | 2.61 | 12.5 | 45.9 | 3916.8 | 446.37 | 0.0289 |
| 1120 | 1289 | 105 | 1394 | 84 | 19 | 4.42 | 2.65 | 13.3 | 48.6 | 4386.8 | 499.93 | 0.0258 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED AACSR (Characteristics of A2/S3A Conductor)

IEC 61089

| Code Number | Areas | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|------------------------------|
| | Alloy | St. | Total | Alloy | St. | Alloy | St. | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.4 | 3.07 | 21.5 | 6 | 1 | 1.98 | 1.98 | 1.98 | 5.93 | 74.4 | 9.88 | 1.7934 |
| 25 | 28.8 | 4.80 | 33.6 | 6 | 1 | 2.47 | 2.47 | 2.47 | 7.41 | 116.2 | 15.25 | 1.1478 |
| 40 | 46.0 | 7.67 | 53.7 | 6 | 1 | 3.13 | 3.13 | 3.13 | 9.38 | 185.9 | 24.17 | 0.7174 |
| 63 | 72.5 | 12.1 | 84.6 | 6 | 1 | 3.92 | 3.92 | 3.92 | 11.8 | 292.8 | 37.58 | 0.4555 |
| 100 | 115 | 6.39 | 121 | 18 | 1 | 2.85 | 2.85 | 2.85 | 14.3 | 366.4 | 42.97 | 0.2880 |
| 125 | 144 | 7.99 | 152 | 18 | 1 | 3.19 | 3.19 | 3.19 | 16.0 | 458.0 | 53.47 | 0.2304 |
| 125 | 144 | 23.4 | 167 | 26 | 7 | 2.65 | 2.06 | 6.19 | 16.8 | 579.9 | 76.42 | 0.2310 |
| 160 | 184 | 10.2 | 194 | 18 | 1 | 3.61 | 3.61 | 3.61 | 18.0 | 586.2 | 68.03 | 0.1800 |
| 160 | 184 | 30.0 | 214 | 26 | 7 | 3.00 | 2.34 | 7.01 | 19.0 | 742.3 | 96.61 | 0.1805 |
| 200 | 230 | 12.8 | 243 | 18 | 1 | 4.04 | 4.04 | 4.04 | 20.2 | 732.8 | 85.04 | 0.1440 |
| 200 | 230 | 37.5 | 268 | 26 | 7 | 3.36 | 2.61 | 7.83 | 21.3 | 927.9 | 120.77 | 0.1444 |
| 250 | 288 | 28.3 | 316 | 22 | 7 | 4.08 | 2.27 | 6.80 | 23.1 | 1013.5 | 124.72 | 0.1154 |
| 250 | 288 | 46.9 | 335 | 26 | 7 | 3.75 | 2.92 | 8.76 | 23.8 | 1159.6 | 150.96 | 0.1155 |
| 315 | 363 | 25.1 | 388 | 45 | 7 | 3.20 | 2.14 | 6.41 | 25.8 | 1196.5 | 143.30 | 0.0917 |
| 315 | 363 | 59.0 | 422 | 26 | 7 | 4.21 | 3.28 | 9.83 | 26.7 | 1461.4 | 188.44 | 0.0917 |
| 400 | 460 | 31.8 | 492 | 45 | 7 | 3.61 | 2.41 | 7.22 | 28.9 | 1519.4 | 180.36 | 0.0722 |
| 400 | 460 | 59.7 | 520 | 54 | 7 | 3.29 | 3.29 | 9.88 | 29.7 | 1738.3 | 218.17 | 0.0723 |
| 450 | 518 | 35.8 | 554 | 45 | 7 | 3.83 | 2.55 | 7.66 | 30.6 | 1709.3 | 203.28 | 0.0642 |
| 450 | 518 | 67.1 | 585 | 54 | 7 | 3.49 | 3.49 | 10.5 | 31.5 | 1955.6 | 245.44 | 0.0643 |
| 500 | 575 | 39.8 | 615 | 45 | 7 | 4.04 | 2.69 | 8.07 | 32.3 | 1899.3 | 225.86 | 0.0578 |
| 500 | 575 | 74.6 | 650 | 54 | 7 | 3.68 | 3.68 | 11.1 | 33.2 | 2172.9 | 269.73 | 0.0578 |
| 560 | 645 | 44.6 | 689 | 45 | 7 | 4.27 | 2.85 | 8.54 | 34.2 | 2127.2 | 252.97 | 0.0516 |
| 560 | 645 | 81.6 | 726 | 54 | 19 | 3.90 | 2.34 | 11.7 | 35.1 | 2420.9 | 305.25 | 0.0516 |
| 630 | 725 | 31.3 | 756 | 72 | 7 | 3.58 | 2.39 | 7.16 | 35.8 | 2248.0 | 258.08 | 0.0459 |
| 630 | 725 | 91.8 | 817 | 54 | 19 | 4.13 | 2.48 | 12.4 | 37.2 | 2723.5 | 343.40 | 0.0459 |
| 710 | 817 | 35.3 | 852 | 72 | 7 | 3.80 | 2.53 | 7.60 | 38.0 | 2533.4 | 290.85 | 0.0407 |
| 710 | 817 | 104 | 921 | 54 | 19 | 4.39 | 2.63 | 13.2 | 39.5 | 3069.4 | 387.01 | 0.0407 |
| 800 | 921 | 39.8 | 961 | 72 | 7 | 4.04 | 2.69 | 8.07 | 40.4 | 2854.6 | 327.72 | 0.0361 |
| 800 | 921 | 76.7 | 997 | 84 | 7 | 3.74 | 3.74 | 11.2 | 41.1 | 3145.4 | 374.44 | 0.0362 |
| 900 | 1036 | 44.8 | 1081 | 72 | 7 | 4.28 | 2.85 | 8.56 | 42.8 | 3211.4 | 368.69 | 0.0321 |
| 900 | 1036 | 86.3 | 1122 | 84 | 7 | 3.96 | 3.96 | 11.9 | 43.6 | 3538.3 | 421.25 | 0.0322 |
| 1000 | 1151 | 93.7 | 1245 | 84 | 19 | 4.18 | 2.61 | 12.5 | 45.9 | 3916.8 | 471.67 | 0.0289 |
| 1120 | 1289 | 105 | 1394 | 84 | 19 | 4.42 | 2.65 | 13.3 | 48.6 | 4386.8 | 528.27 | 0.0258 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED AACSR (Characteristics of A3/S1A Conductor)

IEC 61089

| Code Number | Areas | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|------------------------------|
| | Alloy | St. | Total | Alloy | St. | Alloy | St. | Core | Cond. | | | |
| mm ² | mm ² | mm ² | mm ² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.6 | 3.10 | 21.7 | 6 | 1 | 1.99 | 1.99 | 1.99 | 5.96 | 75.1 | 9.67 | 1.7934 |
| 25 | 29.0 | 4.84 | 33.9 | 6 | 1 | 2.48 | 2.48 | 2.48 | 7.45 | 117.3 | 14.96 | 1.1478 |
| 40 | 46.5 | 7.75 | 54.2 | 6 | 1 | 3.14 | 3.14 | 3.14 | 9.42 | 187.7 | 23.63 | 0.7174 |
| 63 | 73.2 | 12.2 | 85.4 | 6 | 1 | 3.84 | 3.94 | 3.94 | 11.8 | 295.6 | 36.48 | 0.4555 |
| 100 | 116 | 6.46 | 123 | 18 | 1 | 2.87 | 2.87 | 2.87 | 14.3 | 369.9 | 45.12 | 0.2880 |
| 125 | 145 | 8.07 | 153 | 18 | 1 | 3.21 | 3.21 | 3.21 | 16.0 | 462.3 | 56.08 | 0.2304 |
| 125 | 145 | 23.7 | 169 | 26 | 7 | 2.67 | 2.07 | 6.22 | 16.9 | 585.4 | 74.88 | 0.2310 |
| 160 | 186 | 10.3 | 196 | 18 | 1 | 3.63 | 3.63 | 3.63 | 18.1 | 591.8 | 69.92 | 0.1800 |
| 160 | 186 | 30.3 | 216 | 26 | 7 | 3.02 | 2.35 | 7.04 | 19.1 | 749.4 | 94.94 | 0.1805 |
| 200 | 232 | 12.9 | 245 | 18 | 1 | 4.05 | 4.05 | 4.05 | 20.3 | 739.8 | 87.40 | 0.1440 |
| 200 | 232 | 37.8 | 270 | 26 | 7 | 3.37 | 2.62 | 7.87 | 21.4 | 936.7 | 118.67 | 0.1444 |
| 250 | 290 | 28.5 | 319 | 22 | 7 | 4.10 | 2.28 | 6.83 | 23.2 | 1023.2 | 124.02 | 0.1151 |
| 250 | 290 | 47.3 | 338 | 26 | 7 | 3.77 | 2.93 | 8.80 | 23.9 | 1170.9 | 145.43 | 0.1155 |
| 315 | 366 | 25.3 | 391 | 45 | 7 | 3.22 | 2.15 | 6.44 | 25.7 | 1207.9 | 148.56 | 0.0917 |
| 315 | 366 | 59.6 | 426 | 26 | 7 | 4.23 | 3.29 | 9.88 | 26.8 | 1475.9 | 180.86 | 0.0917 |
| 400 | 465 | 32.1 | 497 | 45 | 7 | 3.63 | 2.42 | 7.25 | 29.0 | 1533.9 | 183.03 | 0.0722 |
| 400 | 465 | 60.2 | 525 | 54 | 7 | 3.31 | 3.31 | 9.93 | 29.8 | 1754.9 | 217.32 | 0.0723 |
| 450 | 523 | 36.1 | 559 | 45 | 7 | 3.85 | 2.56 | 7.69 | 30.8 | 1725.6 | 205.91 | 0.0642 |
| 450 | 523 | 67.8 | 591 | 54 | 7 | 3.51 | 3.51 | 10.5 | 31.6 | 1974.2 | 239.26 | 0.0643 |
| 500 | 581 | 40.2 | 621 | 45 | 7 | 4.05 | 2.70 | 8.11 | 32.4 | 1917.3 | 228.79 | 0.0578 |
| 500 | 581 | 75.3 | 656 | 54 | 7 | 3.70 | 3.70 | 11.1 | 33.3 | 2193.6 | 265.84 | 0.0578 |
| 560 | 651 | 45.0 | 696 | 45 | 7 | 4.29 | 2.86 | 8.58 | 34.3 | 2147.4 | 256.24 | 0.0516 |
| 560 | 651 | 82.4 | 733 | 54 | 19 | 3.92 | 2.35 | 11.8 | 35.3 | 2444.0 | 298.92 | 0.0516 |
| 630 | 732 | 31.6 | 764 | 72 | 7 | 3.60 | 2.40 | 7.20 | 36.0 | 2269.4 | 266.64 | 0.0459 |
| 630 | 732 | 92.7 | 825 | 54 | 19 | 4.15 | 2.49 | 12.5 | 37.4 | 2749.5 | 336.28 | 0.0459 |
| 710 | 825 | 35.6 | 861 | 72 | 7 | 3.82 | 2.55 | 7.64 | 38.2 | 2557.6 | 300.50 | 0.0407 |
| 710 | 825 | 104 | 929 | 54 | 19 | 4.41 | 2.65 | 13.2 | 39.7 | 3098.6 | 378.98 | 0.0407 |
| 800 | 930 | 40.2 | 970 | 72 | 7 | 4.05 | 2.70 | 8.11 | 40.5 | 2881.8 | 338.59 | 0.0361 |
| 800 | 930 | 77.5 | 1007 | 84 | 7 | 3.75 | 3.75 | 11.3 | 41.3 | 3175.1 | 378.01 | 0.0362 |
| 900 | 1046 | 45.2 | 1091 | 72 | 7 | 4.30 | 2.87 | 8.60 | 43.0 | 3242.0 | 380.91 | 0.0321 |
| 900 | 1046 | 87.1 | 1133 | 84 | 7 | 3.98 | 3.98 | 11.9 | 43.8 | 3572.0 | 425.26 | 0.0322 |
| 1000 | 1162 | 94.6 | 1257 | 84 | 19 | 4.20 | 2.52 | 12.6 | 46.2 | 3954.1 | 473.86 | 0.0289 |
| 1120 | 1301 | 106 | 1407 | 84 | 19 | 4.44 | 2.66 | 13.3 | 48.9 | 4428.6 | 530.72 | 0.0258 |

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED AACSR (Characteristics of A3/S3A Conductor)

IEC 61089

| Code Number | Areas | | | Number of Wires | | Wire Dia. | | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-------------|-------|------|-------|-----------------|-----|-----------|------|----------|-------|-------------|----------------|------------------------------|
| | Alloy | St. | Total | Alloy | St. | Alloy | St. | Core | Cond. | | | |
| mm² | mm² | mm² | mm² | | | mm | mm | mm | mm | kg/km | kN | Ω/km |
| 16 | 18.6 | 3.10 | 21.7 | 6 | 1 | 1.99 | 1.99 | 1.99 | 5.96 | 75.1 | 10.53 | 1.7934 |
| 25 | 29.0 | 4.84 | 33.9 | 6 | 1 | 2.48 | 2.48 | 2.48 | 7.45 | 117.3 | 16.27 | 1.1478 |
| 40 | 46.5 | 7.75 | 54.2 | 6 | 1 | 3.14 | 3.14 | 3.14 | 9.42 | 187.7 | 25.79 | 0.7174 |
| 63 | 73.2 | 12.2 | 85.4 | 6 | 1 | 3.84 | 3.94 | 3.94 | 11.8 | 295.6 | 39.41 | 0.4555 |
| 100 | 116 | 6.46 | 123 | 18 | 1 | 2.87 | 2.87 | 2.87 | 14.3 | 369.9 | 46.86 | 0.2880 |
| 125 | 145 | 8.07 | 153 | 18 | 1 | 3.21 | 3.21 | 3.21 | 16.0 | 462.3 | 58.34 | 0.2304 |
| 125 | 145 | 23.7 | 169 | 26 | 7 | 2.67 | 2.07 | 6.22 | 16.9 | 585.4 | 81.50 | 0.2310 |
| 160 | 186 | 10.3 | 196 | 18 | 1 | 3.63 | 3.63 | 3.63 | 18.1 | 591.8 | 72.40 | 0.1800 |
| 160 | 186 | 30.3 | 216 | 26 | 7 | 3.02 | 2.35 | 7.04 | 19.1 | 749.4 | 103.11 | 0.1805 |
| 200 | 232 | 12.9 | 245 | 18 | 1 | 4.05 | 4.05 | 4.05 | 20.3 | 739.8 | 90.50 | 0.1440 |
| 200 | 232 | 37.8 | 270 | 26 | 7 | 3.37 | 2.62 | 7.87 | 21.4 | 936.7 | 128.89 | 0.1444 |
| 250 | 290 | 28.5 | 319 | 22 | 7 | 4.10 | 2.28 | 6.83 | 23.2 | 1023.2 | 131.72 | 0.1151 |
| 250 | 290 | 47.3 | 338 | 26 | 7 | 3.77 | 2.93 | 8.80 | 23.9 | 1170.9 | 158.21 | 0.1155 |
| 315 | 366 | 25.3 | 391 | 45 | 7 | 3.22 | 2.15 | 6.44 | 25.7 | 1207.9 | 155.64 | 0.0917 |
| 315 | 366 | 59.6 | 426 | 26 | 7 | 4.23 | 3.29 | 9.88 | 26.8 | 1475.9 | 197.55 | 0.0917 |
| 400 | 465 | 32.1 | 497 | 45 | 7 | 3.63 | 2.42 | 7.25 | 29.0 | 1533.9 | 191.71 | 0.0722 |
| 400 | 465 | 60.2 | 525 | 54 | 7 | 3.31 | 3.31 | 9.93 | 29.8 | 1754.9 | 234.19 | 0.0723 |
| 450 | 523 | 36.1 | 559 | 45 | 7 | 3.85 | 2.56 | 7.69 | 30.8 | 1725.6 | 215.67 | 0.0642 |
| 450 | 523 | 67.8 | 591 | 54 | 7 | 3.51 | 3.51 | 10.5 | 31.6 | 1974.2 | 255.52 | 0.0643 |
| 500 | 581 | 40.2 | 621 | 45 | 7 | 4.05 | 2.70 | 8.11 | 32.4 | 1917.3 | 239.63 | 0.0578 |
| 500 | 581 | 75.3 | 656 | 54 | 7 | 3.70 | 3.70 | 11.1 | 33.3 | 2193.6 | 283.91 | 0.0578 |
| 560 | 651 | 45.0 | 696 | 45 | 7 | 4.29 | 2.86 | 8.58 | 34.3 | 2147.4 | 268.39 | 0.0516 |
| 560 | 651 | 82.4 | 733 | 54 | 19 | 3.92 | 2.35 | 11.8 | 35.3 | 2444.0 | 321.17 | 0.0516 |
| 630 | 732 | 31.6 | 764 | 72 | 7 | 3.60 | 2.40 | 7.20 | 36.0 | 2269.4 | 275.18 | 0.0459 |
| 630 | 732 | 92.7 | 825 | 54 | 19 | 4.15 | 2.49 | 12.5 | 37.4 | 2749.5 | 361.32 | 0.0459 |
| 710 | 825 | 35.6 | 861 | 72 | 7 | 3.82 | 2.55 | 7.64 | 38.2 | 2557.6 | 310.12 | 0.0407 |
| 710 | 825 | 104 | 929 | 54 | 19 | 4.41 | 2.65 | 13.2 | 39.7 | 3098.6 | 407.20 | 0.0407 |
| 800 | 930 | 40.2 | 970 | 72 | 7 | 4.05 | 2.70 | 8.11 | 40.5 | 2881.8 | 349.43 | 0.0361 |
| 800 | 930 | 77.5 | 1007 | 84 | 7 | 3.75 | 3.75 | 11.3 | 41.3 | 3175.1 | 396.60 | 0.0362 |
| 900 | 1046 | 45.2 | 1091 | 72 | 7 | 4.30 | 2.87 | 8.60 | 43.0 | 3242.0 | 393.11 | 0.0321 |
| 900 | 1046 | 87.1 | 1133 | 84 | 7 | 3.98 | 3.98 | 11.9 | 43.8 | 3572.0 | 446.17 | 0.0322 |
| 1000 | 1162 | 94.6 | 1257 | 84 | 19 | 4.20 | 2.52 | 12.6 | 46.2 | 3954.1 | 499.40 | 0.0289 |
| 1120 | 1301 | 106 | 1407 | 84 | 19 | 4.44 | 2.66 | 13.3 | 48.9 | 4428.6 | 559.33 | 0.0258 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED ACAR (JL/LHA2)

Chinese Standard GB/T 1179-2008

| Nominal Area Al./Alloy | Code Number | Diameter | | Number of Wires | | Area | | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|------------------------|-------------|----------|-------|-----------------|-------|------|-------|-------|-------------|----------------|------------------------------|
| | | Wire | Cond. | Al. | Alloy | Al. | Alloy | Total | | | |
| mm² | | mm | mm | | | mm² | mm² | mm² | kg/km | kN | Ω/km |
| 10/7 | 16 | 1.76 | 5.28 | 4 | 3 | 9.73 | 7.30 | 17.0 | 46.6 | 3.85 | 1.7896 |
| 15/10 | 25 | 2.20 | 6.60 | 4 | 3 | 15.2 | 11.4 | 26.6 | 72.8 | 5.93 | 1.1453 |
| 24/20 | 40 | 2.78 | 8.35 | 4 | 3 | 24.3 | 18.3 | 42.6 | 116.5 | 9.25 | 0.7158 |
| 40/30 | 63 | 3.49 | 10.5 | 4 | 3 | 38.3 | 28.7 | 67.1 | 183.5 | 14.38 | 0.4545 |
| 60/45 | 100 | 4.40 | 13.2 | 4 | 3 | 60.8 | 45.6 | 106 | 291.2 | 22.52 | 0.2863 |
| 80/50 | 125 | 2.97 | 14.9 | 12 | 7 | 83.3 | 48.6 | 132 | 362.7 | 27.79 | 0.2302 |
| 105/60 | 160 | 3.36 | 16.8 | 12 | 7 | 107 | 62.2 | 169 | 464.2 | 35.04 | 0.1798 |
| 135/80 | 200 | 3.76 | 18.8 | 12 | 7 | 133 | 77.8 | 211 | 580.3 | 43.13 | 0.1439 |
| 170/95 | 250 | 4.21 | 21.0 | 12 | 7 | 167 | 97.2 | 264 | 725.3 | 53.92 | 0.1151 |
| 130/140 | 250 | 3.04 | 21.3 | 18 | 19 | 131 | 138 | 269 | 742.2 | 60.39 | 0.1154 |
| 265/60 | 315 | 3.34 | 23.4 | 30 | 7 | 263 | 61.3 | 324 | 892.6 | 60.52 | 0.0916 |
| 165/175 | 315 | 3.42 | 23.9 | 18 | 19 | 165 | 174 | 339 | 935.1 | 76.09 | 0.0916 |
| 335/80 | 400 | 3.76 | 26.3 | 30 | 7 | 334 | 77.8 | 411 | 1133.5 | 75.19 | 0.0721 |
| 210/220 | 400 | 3.85 | 27.0 | 18 | 19 | 210 | 221 | 431 | 1187.5 | 95.58 | 0.0721 |
| 375/85 | 450 | 3.99 | 27.9 | 30 | 7 | 375 | 87.6 | 463 | 1275.2 | 84.59 | 0.0641 |
| 235/250 | 450 | 4.08 | 28.6 | 18 | 19 | 236 | 249 | 485 | 1335.9 | 107.52 | 0.0641 |
| 415/95 | 500 | 4.21 | 29.4 | 30 | 7 | 417 | 97.3 | 514 | 1416.9 | 93.98 | 0.0577 |
| 260/275 | 500 | 4.31 | 30.1 | 18 | 19 | 262 | 277 | 539 | 1484.3 | 119.47 | 0.0577 |
| 465/110 | 560 | 4.45 | 31.2 | 30 | 7 | 467 | 109 | 576 | 1586.9 | 105.26 | 0.0515 |
| 505/65 | 560 | 3.45 | 31.0 | 54 | 7 | 504 | 65.4 | 570 | 1571.9 | 101.54 | 0.0516 |
| 455/205 | 630 | 3.71 | 33.4 | 42 | 19 | 454 | 205 | 660 | 1820.0 | 130.25 | 0.0458 |
| 270/420 | 630 | 3.79 | 34.1 | 24 | 37 | 271 | 417 | 688 | 1897.5 | 160.19 | 0.0458 |
| 514/230 | 710 | 3.94 | 35.5 | 42 | 19 | 512 | 232 | 743 | 2051.2 | 146.78 | 0.0407 |
| 307/470 | 710 | 4.02 | 36.2 | 24 | 37 | 305 | 470 | 775 | 2138.4 | 180.53 | 0.0407 |
| 580/260 | 800 | 4.18 | 37.6 | 42 | 19 | 577 | 261 | 838 | 2311.2 | 165.39 | 0.0361 |
| 345/530 | 800 | 4.27 | 38.4 | 24 | 37 | 344 | 530 | 873 | 2409.5 | 203.41 | 0.0361 |
| 650/295 | 900 | 4.43 | 39.9 | 42 | 19 | 649 | 294 | 942 | 2600.1 | 186.06 | 0.0321 |
| 570/390 | 900 | 3.66 | 40.2 | 54 | 37 | 567 | 388 | 955 | 2638.4 | 199.54 | 0.0321 |
| 820/215 | 1000 | 3.80 | 41.8 | 72 | 19 | 816 | 215 | 1032 | 2849.1 | 190.94 | 0.0289 |
| 630/430 | 1000 | 3.85 | 42.4 | 54 | 37 | 630 | 432 | 1061 | 2931.6 | 221.71 | 0.0289 |
| 915/240 | 1120 | 4.02 | 44.2 | 72 | 19 | 914 | 241 | 1155 | 3191.0 | 213.85 | 0.0258 |
| 705/485 | 1120 | 4.08 | 44.9 | 54 | 37 | 705 | 483 | 1189 | 3283.4 | 248.32 | 0.0258 |
| 1020/270 | 1250 | 4.25 | 46.7 | 72 | 19 | 1020 | 269 | 1289 | 3561.4 | 238.68 | 0.0231 |
| 790/540 | 1250 | 4.31 | 47.4 | 54 | 37 | 787 | 539 | 1327 | 3664.5 | 277.14 | 0.0231 |
| 1145/300 | 1400 | 4.50 | 49.4 | 72 | 19 | 1143 | 302 | 1444 | 3988.8 | 267.32 | 0.0207 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
ACAR (JL/LHA1)

Chinese Standard GB/T 1179-2008

| Nominal Area Al./Alloy | Code Number | Diameter | | Number of Wires | | Area | | | Linear Mass kg/km | Rated Strength kN | Max. D.C. Resistance at 20°C Ω/km |
|---------------------------|-------------|----------|-------|-----------------|-------|-----------------|-----------------|-----------------|----------------------|----------------------|--|
| | | Wire | Cond. | Al. | Alloy | Al. | Alloy | Total | | | |
| mm ² | | mm | mm | | | mm ² | mm ² | mm ² | | | |
| 10/7 | 16 | 1.76 | 5.29 | 4 | 3 | 9.78 | 7.33 | 17.1 | 46.8 | 4.07 | 1.7896 |
| 15/10 | 25 | 2.21 | 6.62 | 4 | 3 | 15.3 | 11.5 | 26.7 | 73.1 | 6.29 | 1.1453 |
| 24/20 | 40 | 2.79 | 8.37 | 4 | 3 | 24.4 | 18.3 | 42.8 | 117.0 | 9.82 | 0.7158 |
| 40/30 | 63 | 3.50 | 10.5 | 4 | 3 | 38.5 | 28.9 | 67.4 | 184.3 | 14.80 | 0.4545 |
| 60/45 | 100 | 4.41 | 13.2 | 4 | 3 | 61.1 | 45.8 | 107 | 292.5 | 23.49 | 0.2863 |
| 80/50 | 125 | 2.98 | 14.9 | 12 | 7 | 84 | 48.8 | 132 | 364.1 | 29.49 | 0.2302 |
| 105/60 | 160 | 3.37 | 16.9 | 12 | 7 | 107 | 62.5 | 170 | 466.0 | 36.95 | 0.1798 |
| 135/80 | 200 | 3.77 | 18.8 | 12 | 7 | 134 | 78.1 | 212 | 582.5 | 44.78 | 0.1439 |
| 170/95 | 250 | 4.21 | 21.1 | 12 | 7 | 167 | 97.6 | 265 | 728.1 | 55.98 | 0.1151 |
| 130/140 | 250 | 3.05 | 21.4 | 18 | 19 | 132 | 139 | 271 | 746 | 64.67 | 0.1154 |
| 265/60 | 315 | 3.34 | 23.4 | 30 | 7 | 263 | 61.4 | 325 | 894.4 | 62.40 | 0.0916 |
| 165/175 | 315 | 3.43 | 24.0 | 18 | 19 | 166 | 175 | 341 | 940.0 | 81.48 | 0.0916 |
| 335/80 | 400 | 3.77 | 26.4 | 30 | 7 | 334 | 78 | 412 | 1135.8 | 76.82 | 0.0721 |
| 210/220 | 400 | 3.86 | 27.0 | 18 | 19 | 211 | 222 | 433 | 1193.7 | 100.30 | 0.0721 |
| 375/85 | 450 | 3.99 | 28.0 | 30 | 7 | 376 | 87.7 | 464 | 1277.8 | 86.42 | 0.0641 |
| 235/250 | 450 | 4.10 | 28.7 | 18 | 19 | 237 | 250 | 487 | 1342.9 | 112.84 | 0.0641 |
| 415/95 | 500 | 4.21 | 29.5 | 30 | 7 | 418 | 97.5 | 515 | 1419.8 | 96.03 | 0.0577 |
| 260/275 | 500 | 4.32 | 30.2 | 18 | 19 | 263 | 278 | 542 | 1492.1 | 125.38 | 0.0577 |
| 465/110 | 560 | 4.46 | 31.2 | 30 | 7 | 468 | 109 | 577 | 1590.1 | 107.55 | 0.0515 |
| 505/65 | 560 | 3.45 | 31.1 | 54 | 7 | 505 | 65.5 | 570 | 1573.9 | 103.53 | 0.0516 |
| 455/205 | 630 | 3.72 | 33.4 | 42 | 19 | 456 | 206 | 662 | 1826.0 | 134.59 | 0.0458 |
| 270/420 | 630 | 3.80 | 34.2 | 24 | 37 | 272 | 420 | 692 | 1909.0 | 169.14 | 0.0458 |
| 514/230 | 710 | 3.95 | 35.5 | 42 | 19 | 514 | 232 | 746 | 2057.8 | 151.68 | 0.0407 |
| 307/470 | 710 | 4.03 | 36.3 | 24 | 37 | 307 | 473 | 780 | 2151.4 | 190.61 | 0.0407 |
| 580/260 | 800 | 4.19 | 37.7 | 42 | 19 | 579 | 262 | 840 | 2318.7 | 170.9 | 0.0361 |
| 345/530 | 800 | 4.28 | 38.5 | 24 | 37 | 346 | 533 | 879 | 2424.2 | 214.78 | 0.0361 |
| 650/295 | 900 | 4.44 | 40.0 | 42 | 19 | 651 | 294 | 945 | 2608.5 | 192.27 | 0.0321 |
| 570/390 | 900 | 3.66 | 40.3 | 54 | 37 | 569 | 390 | 959 | 2649.5 | 207.79 | 0.0321 |
| 820/215 | 1000 | 3.80 | 41.8 | 72 | 19 | 818 | 216 | 1034 | 2855.4 | 195.47 | 0.0289 |
| 630/430 | 1000 | 3.86 | 42.5 | 54 | 37 | 632 | 433 | 1066 | 2943.9 | 230.88 | 0.0289 |
| 915/240 | 1120 | 4.02 | 44.3 | 72 | 19 | 916 | 242 | 1158 | 3198.1 | 218.92 | 0.0258 |
| 705/485 | 1120 | 4.09 | 45.0 | 54 | 37 | 708 | 485 | 1194 | 3297.2 | 258.58 | 0.0258 |
| 1020/270 | 1250 | 4.25 | 46.8 | 72 | 19 | 1022 | 270 | 1292 | 3569.3 | 244.33 | 0.0231 |
| 790/540 | 1250 | 4.32 | 47.5 | 54 | 37 | 791 | 542 | 1332 | 3679.9 | 288.6 | 0.0231 |
| 1145/300 | 1400 | 4.50 | 49.5 | 72 | 19 | 1145 | 302 | 1447 | 3997.6 | 273.65 | 0.0207 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
ACAR

ASTM B524

| Size of Conductor | | Stranding | | Overall Diameter | Area | Wire Diameter | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------------|---------------|-----------|-----------|------------------|-----------------|---------------|------------------|-------------|------------------------|------------------------------|
| KCMIL or AWG | Cross Section | 1350-H19 | 6201-T81 | | | | | | | |
| | Square Inch | | | Inch | mm ² | mm | mm | kg/km | daN | Ω/km |
| 30.6 | 0.0240 | 4×0.0661 | 3×0.0661 | 0.198 | 15.5 | 1.679 | 5.03 | 43 | 367 | 1.983 |
| 4 | 0.0328 | 4×0.0772 | 3×0.0772 | 0.232 | 21.2 | 1.961 | 5.89 | 59 | 498 | 1.454 |
| 48.7 | 0.0382 | 4×0.0834 | 3×0.0834 | 0.250 | 24.7 | 2.118 | 6.35 | 68 | 573 | 1.246 |
| 2 | 0.0521 | 4×0.0974 | 3×0.0974 | 0.292 | 33.6 | 2.474 | 7.42 | 93 | 777 | 0.913 |
| 77.5 | 0.0608 | 4×0.1052 | 3×0.1052 | 0.316 | 39.3 | 2.672 | 8.03 | 109 | 893 | 0.721 |
| 1/0 | 0.0829 | 4×0.1228 | 3×0.1228 | 0.368 | 53.5 | 3.119 | 9.35 | 148 | 1195 | 0.575 |
| 123.3 | 0.0968 | 4×0.1327 | 3×0.1327 | 0.398 | 62.5 | 3.371 | 10.11 | 173 | 1395 | 0.492 |
| 2/0 | 0.1045 | 4×0.1379 | 3×0.1379 | 0.414 | 67.4 | 3.503 | 10.52 | 187 | 1470 | 0.455 |
| 155.4 | 0.1221 | 4×0.1490 | 3×0.1490 | 0.447 | 78.7 | 3.785 | 11.35 | 218 | 1700 | 0.390 |
| 3/0 | 0.1317 | 4×0.1548 | 3×0.1548 | 0.464 | 85 | 3.932 | 11.80 | 235 | 1820 | 0.361 |
| 195.7 | 0.1537 | 4×0.1672 | 3×0.1672 | 0.502 | 99.1 | 4.247 | 12.74 | 274 | 2130 | 0.310 |
| 4/0 | 0.1663 | 4×0.1739 | 3×0.1739 | 0.522 | 107 | 4.417 | 13.25 | 297 | 2300 | 0.286 |
| 246.9 | 0.1939 | 4×0.1878 | 3×0.1878 | 0.563 | 125 | 4.77 | 14.31 | 346 | 2682 | 0.245 |
| 250 | 0.1963 | 15×0.1147 | 4×0.1147 | 0.574 | 127 | 2.913 | 14.56 | 350 | 2430 | 0.235 |
| 250 | 0.1963 | 12×0.1147 | 7×0.1147 | 0.574 | 127 | 2.913 | 14.56 | 350 | 2750 | 0.240 |
| 300 | 0.2358 | 15×0.1257 | 4×0.1257 | 0.629 | 152 | 3.193 | 15.96 | 420 | 2885 | 0.195 |
| 300 | 0.2358 | 12×0.1257 | 7×0.1257 | 0.629 | 152 | 3.193 | 15.96 | 420 | 3275 | 0.200 |
| 350 | 0.2748 | 15×0.1357 | 4×0.1357 | 0.679 | 177 | 3.447 | 17.24 | 490 | 3315 | 0.168 |
| 350 | 0.2748 | 12×0.1357 | 7×0.1357 | 0.679 | 177 | 3.447 | 17.24 | 490 | 3735 | 0.172 |
| 400 | 0.3142 | 15×0.1451 | 4×0.1451 | 0.726 | 203 | 3.685 | 18.44 | 560 | 3745 | 0.147 |
| 400 | 0.3142 | 12×0.1451 | 7×0.1451 | 0.726 | 203 | 3.685 | 18.44 | 560 | 4230 | 0.135 |
| 450 | 0.3534 | 15×0.1539 | 4×0.1539 | 0.770 | 228 | 3.909 | 19.55 | 630 | 4150 | 0.130 |
| 450 | 0.3534 | 12×0.1539 | 7×0.1539 | 0.770 | 228 | 3.909 | 19.55 | 630 | 4710 | 0.133 |
| 500 | 0.3926 | 15×0.1622 | 4×0.1622 | 0.811 | 253 | 4.120 | 20.60 | 700 | 4620 | 0.117 |
| 500 | 0.3926 | 12×0.1622 | 7×0.1622 | 0.811 | 253 | 4.120 | 20.60 | 700 | 5240 | 0.120 |
| 500 | 0.3924 | 33×0.1162 | 4×0.1162 | 0.813 | 253 | 2.951 | 20.65 | 700 | 4440 | 0.116 |
| 500 | 0.3924 | 30×0.1162 | 7×0.1162 | 0.813 | 253 | 2.951 | 20.65 | 700 | 4795 | 0.117 |
| 500 | 0.3924 | 24×0.1162 | 13×0.1162 | 0.813 | 253 | 2.951 | 20.65 | 700 | 5285 | 0.120 |
| 500 | 0.3924 | 18×0.1162 | 19×0.1162 | 0.813 | 253 | 2.951 | 20.65 | 700 | 5860 | 0.123 |
| 550 | 0.4318 | 15×0.1701 | 4×0.1701 | 0.851 | 279 | 4.321 | 21.66 | 770 | 5060 | 0.107 |
| 550 | 0.4318 | 12×0.1701 | 7×0.1701 | 0.851 | 279 | 4.321 | 21.66 | 770 | 5770 | 0.110 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
ACAR

ASTM B524

| Size of Conductor | | Stranding | | Overall Diameter | Area | Wire Diameter | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------------|---------------|-----------|-----------|------------------|-----------------|---------------|------------------|-------------|------------------------|------------------------------|
| KCMIL or AWG | Cross Section | 1350-H19 | 6201-T81 | | | | | | | |
| | Square Inch | | | Inch | mm ² | mm | mm | kg/km | daN | Ω/km |
| 550 | 0.4320 | 33×0.1219 | 4×0.1219 | 0.853 | 279 | 2.951 | 21.66 | 770 | 4800 | 0.105 |
| 550 | 0.4320 | 30×0.1219 | 7×0.1219 | 0.853 | 279 | 2.951 | 21.66 | 770 | 5195 | 0.106 |
| 550 | 0.4320 | 24×0.1219 | 13×0.1219 | 0.853 | 279 | 2.951 | 21.66 | 770 | 5730 | 0.109 |
| 550 | 0.4320 | 18×0.1219 | 19×0.1219 | 0.853 | 279 | 2.951 | 21.66 | 770 | 6395 | 0.111 |
| 600 | 0.4712 | 15×0.1777 | 4×0.1777 | 0.889 | 304 | 4.513 | 22.58 | 840 | 5550 | 0.0978 |
| 600 | 0.4712 | 12×0.1777 | 7×0.1777 | 0.889 | 304 | 4.513 | 22.58 | 840 | 6260 | 0.100 |
| 600 | 0.4709 | 33×0.1273 | 4×0.1273 | 0.891 | 304 | 3.23 | 22.63 | 840 | 5240 | 0.096 |
| 600 | 0.4709 | 30×0.1273 | 7×0.1273 | 0.891 | 304 | 3.23 | 22.63 | 840 | 5680 | 0.097 |
| 600 | 0.4709 | 24×0.1273 | 13×0.1273 | 0.891 | 304 | 3.23 | 22.63 | 840 | 6260 | 0.100 |
| 600 | 0.4709 | 18×0.1273 | 19×0.1273 | 0.891 | 304 | 3.23 | 22.63 | 840 | 7020 | 0.102 |
| 650 | 0.5102 | 33×0.1325 | 4×0.1325 | 0.928 | 329 | 3.36 | 23.57 | 910 | 5680 | 0.089 |
| 650 | 0.5102 | 30×0.1325 | 7×0.1325 | 0.928 | 329 | 3.36 | 23.57 | 910 | 6130 | 0.090 |
| 650 | 0.5102 | 24×0.1325 | 13×0.1325 | 0.928 | 329 | 3.36 | 23.57 | 910 | 6800 | 0.092 |
| 650 | 0.5102 | 18×0.1325 | 19×0.1325 | 0.928 | 329 | 3.36 | 23.57 | 910 | 7600 | 0.095 |
| 700 | 0.5494 | 33×0.1375 | 4×0.1375 | 0.963 | 355 | 3.49 | 24.46 | 980 | 6040 | 0.083 |
| 700 | 0.5494 | 30×0.1375 | 7×0.1375 | 0.963 | 355 | 3.49 | 24.46 | 980 | 6530 | 0.084 |
| 700 | 0.5494 | 24×0.1375 | 13×0.1375 | 0.963 | 355 | 3.49 | 24.46 | 980 | 7150 | 0.086 |
| 700 | 0.5494 | 18×0.1357 | 19×0.1357 | 0.963 | 355 | 3.49 | 24.46 | 980 | 7950 | 0.088 |
| 750 | 0.5892 | 33×0.1424 | 4×0.1424 | 0.997 | 380 | 3.62 | 25.32 | 1050 | 6400 | 0.077 |
| 750 | 0.5892 | 30×0.1424 | 7×0.1424 | 0.997 | 380 | 3.62 | 25.32 | 1050 | 6930 | 0.078 |
| 750 | 0.5892 | 24×0.1424 | 13×0.1424 | 0.997 | 380 | 3.62 | 25.32 | 1050 | 7600 | 0.080 |
| 750 | 0.5892 | 18×0.1424 | 19×0.1424 | 0.997 | 380 | 3.62 | 25.32 | 1050 | 8440 | 0.082 |
| 800 | 0.6280 | 33×0.1470 | 4×0.1470 | 1.029 | 405 | 3.73 | 26.15 | 1120 | 6800 | 0.072 |
| 800 | 0.6280 | 30×0.1470 | 7×0.1470 | 1.029 | 405 | 3.73 | 26.15 | 1120 | 7370 | 0.073 |
| 800 | 0.6280 | 24×0.1470 | 13×0.1470 | 1.029 | 405 | 3.73 | 26.15 | 1120 | 8080 | 0.075 |
| 800 | 0.6280 | 18×0.1470 | 19×0.1470 | 1.029 | 405 | 3.73 | 26.15 | 1120 | 9010 | 0.077 |
| 850 | 0.6679 | 33×0.1516 | 4×0.1516 | 1.061 | 431 | 3.85 | 26.95 | 1190 | 7100 | 0.068 |
| 850 | 0.6679 | 30×0.1516 | 7×0.1516 | 1.061 | 431 | 3.85 | 26.95 | 1190 | 7720 | 0.069 |
| 850 | 0.6679 | 24×0.1516 | 13×0.1516 | 1.061 | 431 | 3.85 | 26.95 | 1190 | 8530 | 0.071 |
| 850 | 0.6679 | 18×0.1516 | 19×0.1560 | 1.061 | 431 | 3.85 | 26.95 | 1190 | 9500 | 0.072 |
| 900 | 0.7072 | 33×0.1560 | 4×0.1560 | 1.092 | 456 | 3.96 | 27.75 | 1260 | 7550 | 0.064 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
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ASTM B524

| Size of Conductor | | Stranding | | Overall Diameter | Area | Wire Diameter | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------------|---------------|-----------|-----------|------------------|-----------------|---------------|------------------|-------------|------------------------|------------------------------|
| KCMIL or AWG | Cross Section | 1350-H19 | 6201-T81 | | | | | | | |
| | Square Inch | | | Inch | mm ² | mm | mm | kg/km | daN | Ω/km |
| 900 | 0.7072 | 30×0.1560 | 7×0.1560 | 1.092 | 456 | 3.96 | 27.75 | 1260 | 8170 | 0.065 |
| 900 | 0.7072 | 24×0.1560 | 13×0.1560 | 1.092 | 456 | 3.96 | 27.75 | 1260 | 9015 | 0.067 |
| 900 | 0.7072 | 18×0.1560 | 19×0.1560 | 1.092 | 456 | 3.96 | 27.75 | 1260 | 9950 | 0.068 |
| 950 | 0.7458 | 33×0.1602 | 4×0.1602 | 1.121 | 481 | 4.07 | 28.50 | 1330 | 7950 | 0.061 |
| 950 | 0.7458 | 30×0.1602 | 7×0.1602 | 1.121 | 481 | 4.07 | 28.50 | 1330 | 8610 | 0.062 |
| 950 | 0.7458 | 24×0.1602 | 13×0.1602 | 1.121 | 481 | 4.07 | 28.50 | 1330 | 9500 | 0.063 |
| 950 | 0.7458 | 18×0.1602 | 19×0.1602 | 1.121 | 481 | 4.07 | 28.50 | 1330 | 10610 | 0.065 |
| 1000 | 0.7853 | 33×0.1644 | 4×0.1644 | 1.151 | 507 | 4.17 | 29.30 | 1400 | 8390 | 0.058 |
| 1000 | 0.7853 | 30×0.1644 | 7×0.1644 | 1.151 | 507 | 4.17 | 29.30 | 1400 | 9060 | 0.059 |
| 1000 | 0.7853 | 24×0.1644 | 13×0.1644 | 1.151 | 507 | 4.17 | 29.30 | 1400 | 10030 | 0.060 |
| 1000 | 0.7853 | 18×0.1644 | 19×0.1644 | 1.151 | 507 | 4.17 | 29.30 | 1400 | 11190 | 0.061 |
| 1000 | 0.7849 | 54×0.1280 | 7×0.1280 | 1.152 | 507 | 3.25 | 29.32 | 1397 | 8750 | 0.058 |
| 1000 | 0.7849 | 48×0.1280 | 13×0.1280 | 1.152 | 507 | 3.25 | 29.32 | 1397 | 9370 | 0.059 |
| 1000 | 0.7849 | 42×0.1280 | 19×0.1280 | 1.152 | 507 | 3.25 | 29.32 | 1397 | 10170 | 0.060 |
| 1000 | 0.7849 | 33×0.1280 | 28×0.1280 | 1.152 | 507 | 3.25 | 29.32 | 1397 | 12210 | 0.061 |
| 1100 | 0.8637 | 33×0.1724 | 4×0.1724 | 1.207 | 557 | 4.38 | 30.65 | 1540 | 9190 | 0.053 |
| 1100 | 0.8637 | 30×0.1724 | 7×0.1724 | 1.207 | 557 | 4.38 | 30.65 | 1540 | 9990 | 0.053 |
| 1100 | 0.8637 | 24×0.1724 | 13×0.1724 | 1.207 | 557 | 4.38 | 30.65 | 1540 | 11010 | 0.054 |
| 1100 | 0.8637 | 18×0.1724 | 19×0.1724 | 1.207 | 557 | 4.38 | 30.65 | 1540 | 12300 | 0.056 |
| 1100 | 0.8641 | 54×0.1343 | 7×0.1343 | 1.209 | 557 | 3.41 | 30.70 | 1540 | 9590 | 0.053 |
| 1100 | 0.8641 | 48×0.1343 | 13×0.1343 | 1.209 | 557 | 3.41 | 30.70 | 1540 | 10170 | 0.054 |
| 1100 | 0.8641 | 42×0.1343 | 19×0.1343 | 1.209 | 557 | 3.41 | 30.70 | 1540 | 11070 | 0.055 |
| 1100 | 0.8641 | 33×0.1343 | 28×0.1343 | 1.209 | 557 | 3.41 | 30.70 | 1540 | 11810 | 0.055 |
| 1200 | 0.9426 | 33×0.1801 | 4×0.1801 | 1.261 | 608 | 4.57 | 32.0 | 1680 | 10030 | 0.048 |
| 1200 | 0.9426 | 30×0.1801 | 7×0.1801 | 1.261 | 608 | 4.57 | 32.0 | 1680 | 10880 | 0.049 |
| 1200 | 0.9426 | 24×0.1801 | 13×0.1801 | 1.261 | 608 | 4.57 | 32.0 | 1680 | 12035 | 0.050 |
| 1200 | 0.9426 | 18×0.1801 | 19×0.1801 | 1.261 | 608 | 4.57 | 32.0 | 1680 | 13400 | 0.051 |
| 1200 | 0.9430 | 54×0.1403 | 7×0.1403 | 1.263 | 608 | 3.56 | 32.10 | 1680 | 10260 | 0.048 |
| 1200 | 0.9430 | 48×0.1403 | 13×0.1403 | 1.263 | 608 | 3.56 | 32.10 | 1680 | 10970 | 0.049 |
| 1200 | 0.9430 | 42×0.1403 | 19×0.1403 | 1.263 | 608 | 3.56 | 32.10 | 1680 | 11860 | 0.050 |
| 1200 | 0.9430 | 33×0.1403 | 28×0.1403 | 1.263 | 608 | 3.56 | 32.10 | 1680 | 12790 | 0.051 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
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ASTM B524

| Size of Conductor | | Stranding | | Overall Diameter | Area | Wire Diameter | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------------|---------------|-----------|-----------|------------------|-----------------|---------------|------------------|-------------|------------------------|------------------------------|
| KCMIL or AWG | Cross Section | 1350-H19 | 6201-T81 | | | | | | | |
| | Square Inch | | | Inch | mm ² | mm | mm | kg/km | daN | Ω/km |
| 1250 | 0.9817 | 33×0.1838 | 4×0.1838 | 1.287 | 633 | 4.67 | 32.70 | 1750 | 10480 | 0.046 |
| 1250 | 0.9817 | 30×0.1838 | 7×0.1838 | 1.287 | 633 | 4.67 | 32.70 | 1750 | 11370 | 0.047 |
| 1250 | 0.9817 | 24×0.1838 | 13×0.1838 | 1.287 | 633 | 4.67 | 32.70 | 1750 | 12520 | 0.048 |
| 1250 | 0.9817 | 18×0.1838 | 19×0.1838 | 1.287 | 633 | 4.67 | 32.70 | 1750 | 13990 | 0.049 |
| 1250 | 0.9810 | 54×0.1431 | 7×0.1431 | 1.288 | 633 | 3.63 | 32.72 | 1750 | 10700 | 0.046 |
| 1250 | 0.9810 | 48×0.1431 | 13×0.1431 | 1.288 | 633 | 3.63 | 32.72 | 1750 | 11400 | 0.047 |
| 1250 | 0.9810 | 42×0.1431 | 19×0.1431 | 1.288 | 633 | 3.63 | 32.72 | 1750 | 12340 | 0.048 |
| 1250 | 0.9810 | 33×0.1431 | 28×0.1431 | 1.288 | 633 | 3.63 | 32.72 | 1750 | 13320 | 0.049 |
| 1300 | 1.0205 | 33×0.1874 | 4×0.1874 | 1.312 | 659 | 4.76 | 33.33 | 1820 | 10880 | 0.044 |
| 1300 | 1.0205 | 30×0.1874 | 7×0.1874 | 1.312 | 659 | 4.76 | 33.33 | 1820 | 11810 | 0.045 |
| 1300 | 1.0205 | 24×0.1874 | 13×0.1874 | 1.312 | 659 | 4.76 | 33.33 | 1820 | 13000 | 0.046 |
| 1300 | 1.0205 | 18×0.1874 | 19×0.1874 | 1.312 | 659 | 4.76 | 33.33 | 1820 | 14520 | 0.047 |
| 1300 | 1.0212 | 54×0.1460 | 7×0.1460 | 1.314 | 659 | 3.71 | 33.38 | 1825 | 11150 | 0.044 |
| 1300 | 1.0212 | 48×0.1460 | 13×0.1460 | 1.314 | 659 | 3.71 | 33.38 | 1825 | 11900 | 0.045 |
| 1300 | 1.0212 | 42×0.1460 | 19×0.1460 | 1.314 | 659 | 3.71 | 33.38 | 1825 | 12830 | 0.046 |
| 1300 | 1.0212 | 33×0.1460 | 28×0.1460 | 1.314 | 659 | 3.71 | 33.38 | 1825 | 13850 | 0.047 |
| 1400 | 1.0996 | 54×0.1515 | 7×0.1515 | 1.364 | 709 | 3.85 | 34.65 | 1960 | 11770 | 0.041 |
| 1400 | 1.0996 | 48×0.1515 | 13×0.1515 | 1.364 | 709 | 3.85 | 34.65 | 1960 | 12600 | 0.042 |
| 1400 | 1.0996 | 42×0.1515 | 19×0.1515 | 1.364 | 709 | 3.85 | 34.65 | 1960 | 13670 | 0.043 |
| 1400 | 1.0996 | 33×0.1515 | 28×0.1515 | 1.364 | 709 | 3.85 | 34.65 | 1960 | 14790 | 0.044 |
| 1500 | 1.1779 | 54×0.1568 | 7×0.1568 | 1.411 | 760 | 3.98 | 35.85 | 2100 | 12610 | 0.039 |
| 1500 | 1.1779 | 48×0.1568 | 13×0.1568 | 1.411 | 760 | 3.98 | 35.85 | 2100 | 13500 | 0.0395 |
| 1500 | 1.1779 | 42×0.1568 | 19×0.1568 | 1.411 | 760 | 3.98 | 35.85 | 2100 | 14650 | 0.040 |
| 1500 | 1.1779 | 33×0.1568 | 28×0.1568 | 1.411 | 760 | 3.98 | 35.85 | 2100 | 15850 | 0.041 |
| 1600 | 1.2573 | 54×0.1620 | 7×0.1620 | 1.458 | 811 | 4.11 | 37.05 | 2240 | 13500 | 0.036 |
| 1600 | 1.2573 | 48×0.1620 | 13×0.1620 | 1.458 | 811 | 4.11 | 37.05 | 2240 | 14430 | 0.037 |
| 1600 | 1.2573 | 42×0.1620 | 19×0.1620 | 1.458 | 811 | 4.11 | 37.05 | 2240 | 15630 | 0.037 |
| 1600 | 1.2573 | 33×0.1620 | 28×0.1620 | 1.458 | 811 | 4.11 | 37.05 | 2240 | 16920 | 0.038 |
| 1700 | 1.3345 | 54×0.1669 | 7×0.1669 | 1.502 | 861 | 4.24 | 38.15 | 2380 | 14300 | 0.034 |
| 1700 | 1.3345 | 48×0.1669 | 13×0.1669 | 1.502 | 861 | 4.24 | 38.15 | 2380 | 15320 | 0.0354 |
| 1700 | 1.3345 | 42×0.1669 | 19×0.1669 | 1.502 | 861 | 4.24 | 38.15 | 2380 | 16610 | 0.035 |

ALUMINIUM CONDUCTOR ALLOY REINFORCED
ACAR

ASTM B524

| Size of Conductor | | Stranding | | Overall Diameter | Area | Wire Diameter | Overall Diameter | Linear Mass | Rated Tensile Strength | Max. D.C. Resistance at 20°C |
|-------------------|---------------|-----------|-----------|------------------|-----------------|---------------|------------------|-------------|------------------------|------------------------------|
| KCMIL or AWG | Cross Section | 1350-H19 | 6201-T81 | | | | | | | |
| | Square Inch | | | Inch | mm ² | mm | mm | kg/km | daN | Ω/km |
| 1700 | 1.3345 | 33×0.1669 | 28×0.1669 | 1.502 | 861 | 4.24 | 38.15 | 2380 | 17990 | 0.036 |
| 1750 | 1.3750 | 54×0.1694 | 7×0.1694 | 1.525 | 887 | 4.30 | 38.75 | 2450 | 14750 | 0.033 |
| 1750 | 1.3750 | 48×0.1694 | 13×0.1694 | 1.525 | 887 | 4.30 | 38.75 | 2450 | 15760 | 0.0335 |
| 1750 | 1.3750 | 42×0.1694 | 19×0.1694 | 1.525 | 887 | 4.30 | 38.75 | 2450 | 17100 | 0.034 |
| 1750 | 1.3750 | 33×0.1694 | 28×0.1694 | 1.525 | 887 | 4.30 | 38.75 | 2450 | 18520 | 0.035 |
| 1800 | 1.4140 | 54×0.1718 | 7×0.1718 | 1.546 | 912 | 4.36 | 39.30 | 2520 | 15140 | 0.032 |
| 1800 | 1.4140 | 48×0.1718 | 13×0.1718 | 1.546 | 912 | 4.36 | 39.30 | 2520 | 16210 | 0.0325 |
| 1800 | 1.4140 | 42×0.1718 | 19×0.1718 | 1.546 | 912 | 4.36 | 39.30 | 2520 | 17590 | 0.033 |
| 1800 | 1.4140 | 33×0.1718 | 28×0.1718 | 1.546 | 912 | 4.36 | 39.30 | 2520 | 19050 | 0.034 |
| 1900 | 1.4924 | 54×0.1765 | 7×0.1765 | 1.589 | 963 | 4.48 | 40.35 | 2660 | 15990 | 0.0305 |
| 1900 | 1.4924 | 48×0.1765 | 13×0.1765 | 1.589 | 963 | 4.48 | 40.35 | 2660 | 17140 | 0.031 |
| 1900 | 1.4924 | 42×0.1765 | 19×0.1765 | 1.589 | 963 | 4.48 | 40.35 | 2660 | 18560 | 0.0315 |
| 1900 | 1.4924 | 33×0.1765 | 28×0.1765 | 1.589 | 963 | 4.48 | 40.35 | 2660 | 20120 | 0.032 |
| 2000 | 1.5713 | 54×0.1811 | 7×0.1811 | 1.630 | 1013 | 4.60 | 41.40 | 2800 | 16830 | 0.029 |
| 2000 | 1.5713 | 48×0.1811 | 13×0.1811 | 1.630 | 1013 | 4.60 | 41.40 | 2800 | 18030 | 0.0295 |
| 2000 | 1.5713 | 42×0.1811 | 19×0.1811 | 1.630 | 1013 | 4.60 | 41.40 | 2800 | 19540 | 0.030 |
| 2000 | 1.5713 | 33×0.1811 | 28×0.1811 | 1.630 | 1013 | 4.60 | 41.40 | 2800 | 21140 | 0.0305 |
| 2000 | 1.5700 | 72×0.1482 | 19×0.1482 | 1.630 | 1013 | 3.76 | 41.40 | 2795 | 18210 | 0.0295 |
| 2000 | 1.5700 | 63×0.1482 | 28×0.1482 | 1.630 | 1013 | 3.76 | 41.40 | 2795 | 19275 | 0.0300 |
| 2000 | 1.5700 | 54×0.1482 | 37×0.1482 | 1.630 | 1013 | 3.76 | 41.40 | 2795 | 20695 | 0.0305 |
| 2250 | 1.7660 | 72×0.1572 | 19×0.1572 | 1.729 | 1140 | 3.99 | 43.90 | 3175 | 20200 | 0.0265 |
| 2250 | 1.7660 | 63×0.1572 | 28×0.1572 | 1.729 | 1140 | 3.99 | 43.90 | 3175 | 21450 | 0.0267 |
| 2250 | 1.7660 | 54×0.1572 | 37×0.1572 | 1.729 | 1140 | 3.99 | 43.90 | 3175 | 23050 | 0.027 |
| 2500 | 1.9620 | 72×0.1657 | 19×0.1657 | 1.823 | 1267 | 4.21 | 46.30 | 3530 | 22470 | 0.023 |
| 2500 | 1.9620 | 63×0.1657 | 28×0.1657 | 1.823 | 1267 | 4.21 | 46.30 | 3530 | 23850 | 0.024 |
| 2500 | 1.9620 | 54×0.1657 | 37×0.1657 | 1.823 | 1267 | 4.21 | 46.30 | 3530 | 25625 | 0.0245 |
| 2750 | 2.1590 | 72×0.1738 | 19×0.1738 | 1.912 | 1393 | 4.41 | 48.55 | 3880 | 24690 | 0.0215 |
| 2750 | 2.1590 | 63×0.1738 | 28×0.1738 | 1.912 | 1393 | 4.41 | 48.55 | 3880 | 26200 | 0.0220 |
| 2750 | 2.1590 | 54×0.1738 | 37×0.1738 | 1.912 | 1393 | 4.41 | 48.55 | 3880 | 28200 | 0.0222 |
| 3000 | 2.3570 | 72×0.1816 | 19×0.1816 | 1.998 | 1520 | 4.61 | 50.75 | 4240 | 26950 | 0.0197 |
| 3000 | 2.3570 | 63×0.1816 | 28×0.1816 | 1.998 | 1520 | 4.61 | 50.75 | 4240 | 28640 | 0.0200 |
| 3000 | 2.3750 | 54×0.1816 | 37×0.1816 | 1.998 | 1520 | 4.61 | 50.75 | 4240 | 30770 | 0.0203 |

ALUMINIUM CONDUCTORS ALUMINIUM ALLOY REINFORCED
ACAR (Characteristics of A1/A2 Conductor)

IEC 61089

| Code Number | Diameter | | Number of Wires | | Area | | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|----------|-------|-----------------|-------|-----------------|-----------------|-----------------|-------------|----------------|------------------------------|
| | Wire | Cond. | Al. | Alloy | Al. | Alloy | Total | | | |
| mm ² | mm | mm | | | mm ² | mm ² | mm ² | kg/km | kN | Ω/km |
| 16 | 1.76 | 5.28 | 4 | 3 | 9.73 | 7.30 | 17.0 | 46.6 | 3.85 | 1.7896 |
| 25 | 2.20 | 6.60 | 4 | 3 | 15.2 | 11.4 | 26.6 | 72.8 | 5.93 | 1.1453 |
| 40 | 2.78 | 8.35 | 4 | 3 | 24.3 | 18.3 | 42.6 | 116.5 | 9.25 | 0.7158 |
| 63 | 3.49 | 10.5 | 4 | 3 | 38.3 | 28.7 | 67.1 | 183.5 | 14.38 | 0.4545 |
| 100 | 4.40 | 13.2 | 4 | 3 | 60.8 | 45.6 | 106 | 291.2 | 22.52 | 0.2863 |
| 125 | 2.97 | 14.9 | 12 | 7 | 83.3 | 48.6 | 132 | 362.7 | 27.79 | 0.2302 |
| 160 | 3.36 | 16.8 | 12 | 7 | 107 | 62.2 | 169 | 464.2 | 35.04 | 0.1798 |
| 200 | 3.76 | 18.8 | 12 | 7 | 133 | 77.8 | 211 | 580.3 | 43.13 | 0.1439 |
| 250 | 4.21 | 21.0 | 12 | 7 | 167 | 97.2 | 264 | 725.3 | 53.92 | 0.1151 |
| 250 | 3.04 | 21.3 | 18 | 19 | 131 | 138 | 269 | 742.2 | 60.39 | 0.1154 |
| 315 | 3.34 | 23.4 | 30 | 7 | 263 | 61.3 | 324 | 892.6 | 60.52 | 0.0916 |
| 315 | 3.42 | 23.9 | 18 | 19 | 165 | 174 | 339 | 935.1 | 76.09 | 0.0916 |
| 400 | 3.76 | 26.3 | 30 | 7 | 334 | 77.8 | 411 | 1133.5 | 75.19 | 0.0721 |
| 400 | 3.85 | 27.0 | 18 | 19 | 210 | 221 | 431 | 1187.5 | 95.58 | 0.0721 |
| 450 | 3.99 | 27.9 | 30 | 7 | 375 | 87.6 | 463 | 1275.2 | 84.59 | 0.0641 |
| 450 | 4.08 | 28.6 | 18 | 19 | 236 | 249 | 485 | 1335.9 | 107.52 | 0.0641 |
| 500 | 4.21 | 29.4 | 30 | 7 | 417 | 97.3 | 514 | 1416.9 | 93.98 | 0.0577 |
| 500 | 4.31 | 30.1 | 18 | 19 | 262 | 277 | 539 | 1484.3 | 119.47 | 0.0577 |
| 560 | 4.45 | 31.2 | 30 | 7 | 467 | 109 | 576 | 1586.9 | 105.26 | 0.0515 |
| 560 | 3.45 | 31.0 | 54 | 7 | 504 | 65.4 | 570 | 1571.9 | 101.54 | 0.0516 |
| 630 | 3.71 | 33.4 | 42 | 19 | 454 | 205 | 660 | 1820.0 | 130.25 | 0.0458 |
| 630 | 3.79 | 34.1 | 24 | 37 | 271 | 417 | 688 | 1897.5 | 160.19 | 0.0458 |
| 710 | 3.94 | 35.5 | 42 | 19 | 512 | 232 | 743 | 2051.2 | 146.78 | 0.0407 |
| 710 | 4.02 | 36.2 | 24 | 37 | 305 | 470 | 775 | 2138.4 | 180.53 | 0.0407 |
| 800 | 4.18 | 37.6 | 42 | 19 | 577 | 261 | 838 | 2311.2 | 165.39 | 0.0361 |
| 800 | 4.27 | 38.4 | 24 | 37 | 344 | 530 | 873 | 2409.5 | 203.41 | 0.0361 |
| 900 | 4.43 | 39.9 | 42 | 19 | 649 | 294 | 942 | 2600.1 | 186.06 | 0.0321 |
| 900 | 3.66 | 40.2 | 54 | 37 | 567 | 388 | 955 | 2638.4 | 199.54 | 0.0321 |
| 1000 | 3.80 | 41.8 | 72 | 19 | 816 | 215 | 1032 | 2849.1 | 190.94 | 0.0289 |
| 1000 | 3.85 | 42.4 | 54 | 37 | 630 | 432 | 1061 | 2931.6 | 221.71 | 0.0289 |
| 1120 | 4.02 | 44.2 | 72 | 19 | 914 | 241 | 1155 | 3191.0 | 213.85 | 0.0258 |
| 1120 | 4.08 | 44.9 | 54 | 37 | 705 | 483 | 1189 | 3283.4 | 248.32 | 0.0258 |
| 1250 | 4.25 | 46.7 | 72 | 19 | 1020 | 269 | 1289 | 3561.4 | 238.68 | 0.0231 |
| 1250 | 4.31 | 47.4 | 54 | 37 | 787 | 539 | 1327 | 3664.5 | 277.14 | 0.0231 |
| 1400 | 4.50 | 49.4 | 72 | 19 | 1143 | 302 | 1444 | 3988.8 | 267.32 | 0.0207 |

ALUMINIUM CONDUCTORS ALUMINIUM ALLOY REINFORCED
ACAR (Characteristics of A1/A3 Conductor)

IEC 61089

| Code Number | Diameter | | Number of Wires | | Area | | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|----------|-------|-----------------|-------|-----------------|-----------------|-----------------|-------------|----------------|------------------------------|
| | Wire | Cond. | Al. | Alloy | Al. | Alloy | Total | | | |
| mm ² | mm | mm | | | mm ² | mm ² | mm ² | kg/km | kN | Ω/km |
| 16 | 1.76 | 5.29 | 4 | 3 | 9.78 | 7.33 | 17.1 | 46.8 | 4.07 | 1.7896 |
| 25 | 2.21 | 6.62 | 4 | 3 | 15.3 | 11.5 | 26.7 | 73.1 | 6.29 | 1.1453 |
| 40 | 2.79 | 8.37 | 4 | 3 | 24.4 | 18.3 | 42.8 | 117.0 | 9.82 | 0.7158 |
| 63 | 3.50 | 10.5 | 4 | 3 | 38.5 | 28.9 | 67.4 | 184.3 | 14.80 | 0.4545 |
| 100 | 4.41 | 13.2 | 4 | 3 | 61.1 | 45.8 | 107 | 292.5 | 23.49 | 0.2863 |
| 125 | 2.98 | 14.9 | 12 | 7 | 83.7 | 48.8 | 132 | 364.1 | 29.29 | 0.2302 |
| 160 | 3.37 | 16.9 | 12 | 7 | 107 | 62.5 | 170 | 466.0 | 36.95 | 0.1798 |
| 200 | 3.77 | 18.8 | 12 | 7 | 134 | 78.1 | 212 | 582.5 | 44.78 | 0.1439 |
| 250 | 4.21 | 21.1 | 12 | 7 | 167 | 97.6 | 265 | 728.1 | 55.98 | 0.1151 |
| 250 | 3.05 | 21.4 | 18 | 19 | 132 | 139 | 271 | 746.0 | 64.67 | 0.1154 |
| 315 | 3.34 | 23.4 | 30 | 7 | 263 | 61.4 | 325 | 894.4 | 62.40 | 0.0916 |
| 315 | 3.43 | 24.0 | 18 | 19 | 166 | 175 | 341 | 940.0 | 81.48 | 0.0916 |
| 400 | 3.77 | 26.4 | 30 | 7 | 334 | 78.0 | 412 | 1135.8 | 76.82 | 0.0721 |
| 400 | 3.86 | 27.0 | 18 | 19 | 211 | 222 | 433 | 1193.7 | 100.30 | 0.0721 |
| 450 | 3.99 | 28.0 | 30 | 7 | 376 | 87.7 | 464 | 1277.8 | 86.42 | 0.0641 |
| 450 | 4.10 | 28.7 | 18 | 19 | 237 | 250 | 487 | 1342.9 | 112.84 | 0.0641 |
| 500 | 4.21 | 29.5 | 30 | 7 | 418 | 97.5 | 515 | 1419.8 | 96.03 | 0.0577 |
| 500 | 4.32 | 30.2 | 18 | 19 | 263 | 278 | 542 | 1492.1 | 125.38 | 0.0577 |
| 560 | 4.46 | 31.2 | 30 | 7 | 468 | 109 | 577 | 1590.1 | 107.55 | 0.0515 |
| 560 | 3.45 | 31.1 | 54 | 7 | 505 | 65.5 | 570 | 1573.9 | 103.53 | 0.0516 |
| 630 | 3.72 | 33.4 | 42 | 19 | 456 | 206 | 662 | 1826.0 | 134.59 | 0.0458 |
| 630 | 3.80 | 34.2 | 24 | 37 | 272 | 420 | 692 | 1909.0 | 169.14 | 0.0458 |
| 710 | 3.95 | 35.5 | 42 | 19 | 514 | 232 | 746 | 2057.8 | 151.68 | 0.0407 |
| 710 | 4.03 | 36.3 | 24 | 37 | 307 | 473 | 780 | 2151.4 | 190.61 | 0.0407 |
| 800 | 4.19 | 37.7 | 42 | 19 | 579 | 262 | 840 | 2318.7 | 170.90 | 0.0361 |
| 800 | 4.28 | 38.5 | 24 | 37 | 346 | 533 | 879 | 2424.2 | 214.78 | 0.0361 |
| 900 | 4.44 | 40.0 | 42 | 19 | 651 | 294 | 945 | 2608.5 | 192.27 | 0.0321 |
| 900 | 3.66 | 40.3 | 54 | 37 | 569 | 390 | 959 | 2649.5 | 207.79 | 0.0321 |
| 1000 | 3.80 | 41.8 | 72 | 19 | 818 | 216 | 1034 | 2855.4 | 195.47 | 0.0289 |
| 1000 | 3.86 | 42.5 | 54 | 37 | 632 | 433 | 1066 | 2943.9 | 230.88 | 0.0289 |
| 1120 | 4.02 | 44.3 | 72 | 19 | 916 | 242 | 1158 | 3198.1 | 218.92 | 0.0258 |
| 1120 | 4.09 | 45.0 | 54 | 37 | 708 | 485 | 1194 | 3297.2 | 258.58 | 0.0258 |
| 1250 | 4.25 | 46.8 | 72 | 19 | 1022 | 270 | 1292 | 3569.3 | 244.33 | 0.0231 |
| 1250 | 4.32 | 47.5 | 54 | 37 | 791 | 542 | 1332 | 3679.9 | 288.60 | 0.0231 |
| 1400 | 4.50 | 49.5 | 72 | 19 | 1145 | 302 | 1447 | 3997.6 | 273.65 | 0.0207 |

ALUMINUM CONDUCTOR ALUMINUM CLAD STEEL REINFORCED
ACSR/AW

ASTM B549-88

| Code Name | Area | | | | Stranding and Wire Dia. | | Approx Overall Dia. | Weight | | | Maximum Breaking Load kN | Max. D.C. Resistance at 20°C Ω/km |
|-----------|------------|--------|--------|--------|-------------------------|----------|---------------------|--------|-----|-------|-----------------------------|--------------------------------------|
| | Alum. | | AW. | | Alum. | AW. | | Alum. | AW. | Total | | |
| | AWG or MCM | mm² | mm² | mm² | | | mm | | | | mm | mm |
| Tern | 795 | 402.84 | 27.87 | 430.71 | 45/3.38 | 7/2.25 | 27.03 | 1116 | 184 | 1300 | 95.44 | 0.0702 |
| Condor | 795 | 402.84 | 52.19 | 456.03 | 54/3.08 | 7/3.08 | 27.72 | 1116 | 345 | 1461 | 122.77 | 0.0689 |
| Cuckoo | 795 | 402.84 | 52.19 | 456.03 | 24/4.62 | 7/3.08 | 27.74 | 1116 | 345 | 1461 | 122.77 | 0.0689 |
| Drake | 795 | 402.84 | 65.61 | 468.45 | 26/4.44 | 7/3.45 | 28.11 | 1116 | 434 | 1550 | 135.96 | 0.0681 |
| Coot | 795 | 402.84 | 11.16 | 414.00 | 36/3.77 | 1/3.77 | 26.41 | 1110 | 74 | 1184 | 74.09 | 0.0709 |
| Mallard | 795 | 402.84 | 91.87 | 494.71 | 30/4.14 | 19/2.48 | 28.96 | 1119 | 609 | 1728 | 164.91 | 0.0669 |
| Ruddy | 900 | 456.06 | 31.54 | 487.60 | 45/3.59 | 7/2.40 | 28.73 | 1263 | 209 | 1472 | 107.09 | 0.0620 |
| Canary | 900 | 456.06 | 59.10 | 515.16 | 54/3.28 | 7/3.28 | 29.52 | 1263 | 391 | 1554 | 137.34 | 0.0608 |
| Rail | 954 | 483.42 | 33.42 | 516.84 | 45/3.70 | 7/2.47 | 29.61 | 1339 | 221 | 1560 | 113.28 | 0.0585 |
| Catbird | 954 | 483.42 | 13.42 | 496.84 | 36/4.14 | 1/4.14 | 28.95 | 1333 | 88 | 1421 | 86.36 | 0.0591 |
| Cardinal | 954 | 483.42 | 62.65 | 546.07 | 54/3.38 | 7/3.38 | 30.42 | 1339 | 414 | 1753 | 145.59 | 0.0574 |
| Ortlan | 1033.5 | 523.68 | 36.19 | 559.87 | 45/3.85 | 7/2.57 | 30.81 | 1451 | 239 | 1690 | 120.55 | 0.0540 |
| Tanager | 1033.5 | 523.68 | 14.51 | 538.19 | 36/4.30 | 1/4.30 | 30.12 | 1443 | 96 | 1539 | 93.52 | 0.0545 |
| Curlew | 1033.5 | 523.68 | 67.87 | 591.55 | 54/3.52 | 7/3.52 | 31.66 | 1451 | 449 | 1900 | 155.16 | 0.0530 |
| Bluejay | 1113 | 563.93 | 39.03 | 602.96 | 45/4.00 | 7/2.66 | 31.86 | 1563 | 258 | 1821 | 129.88 | 0.0502 |
| Bunting | 1192.5 | 604.26 | 41.55 | 645.81 | 45/4.14 | 7/2.76 | 33.12 | 1674 | 275 | 1949 | 138.86 | 0.0468 |
| Grackle | 1192.5 | 604.26 | 76.58 | 680.84 | 54/3.77 | 19/2.27 | 33.97 | 1682 | 508 | 2190 | 179.00 | 0.0462 |
| Bittern | 1272 | 644.51 | 44.52 | 689.03 | 45/4.27 | 7/2.85 | 34.17 | 1785 | 295 | 2080 | 148.34 | 0.0439 |
| Pheasant | 1272 | 644.51 | 81.68 | 726.19 | 54/3.90 | 19/2.34 | 35.10 | 1795 | 541 | 2335 | 188.43 | 0.0433 |
| Skylark | 1272 | 644.51 | 17.87 | 662.38 | 36/4.78 | 1/4.78 | 33.42 | 1777 | 118 | 1895 | 113.94 | 0.0443 |
| Dipper | 1351.5 | 684.84 | 47.10 | 731.94 | 45/4.40 | 7/2.92 | 35.16 | 1908 | 312 | 2210 | 157.39 | 0.0413 |
| Martin | 1351.5 | 684.84 | 88.71 | 771.55 | 54/4.02 | 19/2.41 | 36.17 | 1906 | 575 | 2481 | 200.13 | 0.0407 |
| Bobolink | 1431 | 725.10 | 50.32 | 775.42 | 45/4.53 | 7/3.02 | 36.24 | 2019 | 333 | 2342 | 167.16 | 0.0380 |
| Plover | 1431 | 725.10 | 91.87 | 816.97 | 54/4.14 | 19/2.48 | 37.24 | 2019 | 609 | 2628 | 211.97 | 0.0385 |
| Nuthatch | 1510.5 | 765.35 | 52.90 | 818.25 | 45/4.65 | 7/3.10 | 37.20 | 2120 | 350 | 2470 | 176.19 | 0.0370 |
| Parrot | 1510.5 | 765.35 | 96.84 | 862.19 | 54/4.25 | 19/2.55 | 38.25 | 2131 | 642 | 2773 | 223.59 | 0.0364 |
| Lapwing | 1590 | 805.68 | 55.48 | 861.16 | 45/4.77 | 7/3.18 | 38.16 | 2232 | 367 | 2599 | 185.24 | 0.0351 |
| Falcon | 1590 | 805.68 | 102.13 | 907.81 | 54/4.36 | 19/2.62 | 39.26 | 2243 | 677 | 2920 | 235.58 | 0.0345 |
| Grouse | 80.0 | 40.54 | 14.13 | 54.87 | 8/2.54 | 1/4.242 | 9.32 | 111 | 93 | 204 | 21.70 | 0.0358 |
| Petrel | 101.6 | 51.58 | 30.08 | 81.66 | 12/2.339 | 7/2.339 | 11.70 | 141 | 201 | 342 | 44.00 | 0.04587 |
| Minorca | 110.8 | 56.14 | 32.76 | 88.90 | 12/2.441 | 7/2.441 | 12.20 | 154 | 219 | 373 | 47.92 | 0.04306 |
| Leghorn | 134.6 | 62.80 | 39.78 | 102.58 | 12/2.69 | 7/2.69 | 13.45 | 187 | 266 | 453 | 57.80 | 0.3535 |
| Guinea | 159.0 | 80.57 | 47.00 | 127.57 | 12/2.924 | 7/2.924 | 14.62 | 221 | 314 | 535 | 57.98 | 0.3000 |
| Dotterel | 176.9 | 89.64 | 52.29 | 141.93 | 12/3.084 | 7/3.084 | 15.42 | 246 | 349 | 595 | 75.20 | 0.2697 |
| Dorking | 190.8 | 96.68 | 56.4 | 153.08 | 12/3.203 | 7/3.203 | 16.01 | 265 | 377 | 642 | 81.11 | 0.2500 |
| Brahma | 203.2 | 103.00 | 91.93 | 184.93 | 16/2.863 | 19/2.482 | 18.13 | 283 | 617 | 900 | 120.46 | 0.2160 |
| Cochin | 211.3 | 107.1 | 62.47 | 169.57 | 12/3.371 | 7/3.371 | 16.85 | 294 | 417 | 711 | 88.06 | 0.2257 |

ALUMINIUM CLAD STEEL WIRE

ASTM B415-1998

| Nominal Diameter | | Area mm² | Min. Tensile Strength mpa | Calculated Breaking Load kN | Min. Coating Thickness mm | Max. D.C. Resistance at 20°C Ω/km | Weight kg/km |
|------------------|-----|-------------|------------------------------|--------------------------------|------------------------------|--------------------------------------|-----------------|
| mm | AWG | | | | | | |
| 2.052 | 12 | 3.307 | 1340 | 4.5 | 0.103 | 25.64 | 21.80 |
| 2.304 | 11 | 4.169 | 1340 | 5.6 | 0.115 | 20.34 | 27.49 |
| 2.589 | 10 | 5.260 | 1340 | 7.1 | 0.130 | 16.12 | 34.66 |
| 2.904 | 9 | 6.633 | 1340 | 8.9 | 0.145 | 12.78 | 43.65 |
| 3.264 | 8 | 8.367 | 1340 | 11.2 | 0.163 | 10.14 | 55.14 |
| 3.477 | 7 | 9.495 | 1310 | 12.4 | 0.174 | 8.93 | 62.57 |
| 3.665 | 7 | 10.55 | 1280 | 13.5 | 0.183 | 8.04 | 69.48 |
| 3.934 | 6 | 12.16 | 1240 | 15.1 | 0.197 | 6.93 | 80.13 |
| 4.115 | 6 | 13.30 | 1210 | 16.0 | 0.206 | 6.38 | 87.62 |
| 4.392 | 5 | 15.15 | 1170 | 17.7 | 0.220 | 5.60 | 99.84 |
| 4.620 | 5 | 16.76 | 1140 | 19.1 | 0.231 | 5.06 | 110.50 |
| 4.775 | 4 | 17.91 | 1100 | 19.7 | 0.239 | 4.73 | 118.0 |
| 5.189 | 4 | 21.15 | 1070 | 22.6 | 0.259 | 4.01 | 139.34 |



ALUMINIUM CLAD STEEL STRAND
JLB1A, JLB1B

Chinese Standard GB/T 1179-2008

| Nominal Area St | Code Number | Area | Number of Wires | Diameter | | Linear Mass | | Rated Strength | | Max. D.C. Resistance at 20°C |
|-----------------|-------------|-----------------|-----------------|----------|-------|-------------|--------|----------------|--------|------------------------------|
| | | | | Wire | Cond. | JLB1A | JLB1B | JLB1A | JLB1B | |
| mm ² | | mm ² | | mm | mm | kg/km | kg/km | kN | kN | Ω/km |
| 15 | 4 | 12 | 7 | 1.48 | 4.43 | 80.1 | 79.4 | 16.08 | 15.84 | 7.1592 |
| 20 | 6.3 | 18.9 | 7 | 1.85 | 5.56 | 126.2 | 125.0 | 25.33 | 24.95 | 4.5455 |
| 30 | 10 | 30 | 7 | 2.34 | 7.01 | 200.3 | 198.5 | 40.20 | 39.60 | 2.8637 |
| 35 | 12.5 | 37.5 | 7 | 2.61 | 7.84 | 250.4 | 248.1 | 50.25 | 49.50 | 2.2910 |
| 50 | 16 | 48 | 7 | 2.95 | 8.86 | 320.5 | 317.5 | 64.32 | 63.36 | 1.7898 |
| 75 | 25 | 75 | 7 | 3.69 | 11.08 | 500.7 | 496.2 | 93.75 | 99.00 | 1.1455 |
| 120 | 40 | 120 | 7 | 4.67 | 14.02 | 801.2 | 793.9 | 132.00 | 158.40 | 0.7159 |
| 120 | 40 | 120 | 19 | 2.84 | 14.18 | 805.0 | 797.7 | 160.80 | 158.40 | 0.7194 |
| 200 | 63 | 189 | 19 | 3.56 | 17.79 | 1267.9 | 1256.4 | 240.03 | 249.48 | 0.4568 |
| 300 | 100 | 300 | 37 | 3.21 | 22.49 | 2017.3 | 1999.0 | 402.00 | 396.00 | 0.2884 |
| 350 | 125 | 375 | 37 | 3.59 | 25.15 | 2521.7 | 2498.3 | 476.25 | 495.00 | 0.2307 |
| 450 | 150 | 480 | 37 | 4.06 | 28.45 | 3227.7 | 3198.3 | 580.80 | 633.60 | 0.1803 |
| 600 | 200 | 600 | 37 | 4.54 | 31.81 | 4034.7 | 3997.9 | 684.00 | 792.00 | 0.1442 |
| 600 | 200 | 600 | 61 | 3.54 | 31.85 | 4040.6 | 4003.8 | 762.00 | 792.00 | 0.1444 |

ALUMINIUM CLAD STEEL STRAND
JLB2

Chinese Standard GB/T 1179-2008

| Nominal Area St | Code Number | Area | Number of Wires | Diameter | | Linear Mass | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-------------|-----------------|-----------------|----------|-------|-------------|----------------|------------------------------|
| | | | | Wire | Cond. | | | |
| mm ² | | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 35 | 16 | 36.2 | 7 | 2.56 | 7.69 | 216.4 | 39.04 | 1.7896 |
| 55 | 25 | 56.5 | 7 | 3.21 | 9.62 | 338.2 | 61.00 | 1.1454 |
| 100 | 40 | 90.4 | 7 | 4.05 | 12.2 | 541.1 | 97.61 | 0.7159 |
| 100 | 40 | 90.4 | 19 | 2.46 | 12.3 | 543.7 | 97.61 | 0.7193 |
| 150 | 63 | 142 | 19 | 3.09 | 15.4 | 856.4 | 153.73 | 0.4567 |
| 220 | 100 | 226 | 37 | 2.79 | 19.5 | 1362.6 | 244.02 | 0.2884 |
| 300 | 125 | 282 | 37 | 3.12 | 21.8 | 1703.2 | 305.02 | 0.2307 |
| 350 | 160 | 362 | 37 | 3.53 | 24.7 | 2180.1 | 390.43 | 0.1803 |
| 450 | 200 | 452 | 37 | 3.94 | 27.6 | 2725.1 | 488.03 | 0.1442 |
| 450 | 200 | 452 | 61 | 3.07 | 27.6 | 2729.1 | 488.03 | 0.1444 |

ALUMINIUM CLAD STEEL STRAND

ASTM B416

| Code Number | Area | No. of Wires | Diameter | | Weight | Rated Strength | Max. D.C. Resistance at 20°C |
|--------------|-----------------|--------------|----------|-------|--------|----------------|------------------------------|
| | | | Wire | Cond. | | | |
| | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 3 No 5Awg. | 50.32 | 3 | 4.62 | 9.96 | 334.1 | 54.42 | 1.6990 |
| 3 No 6Awg. | 39.00 | 3 | 4.11 | 8.87 | 265.0 | 45.74 | 2.1420 |
| 3 No 7Awg. | 31.65 | 3 | 3.67 | 7.90 | 210.1 | 38.36 | 2.7010 |
| 3 No 8Awg. | 25.10 | 3 | 3.26 | 7.03 | 166.7 | 32.06 | 3.4060 |
| 3 No 9Awg. | 19.90 | 3 | 2.91 | 6.26 | 132.2 | 25.43 | 4.2940 |
| 3 No 10Awg. | 15.78 | 3 | 2.59 | 5.58 | 104.8 | 20.16 | 5.4150 |
| 7 No 5Awg. | 117.40 | 7 | 4.62 | 13.90 | 781.1 | 120.27 | 0.7426 |
| 7 No 6Awg. | 93.10 | 7 | 4.11 | 12.40 | 619.5 | 101.14 | 0.9198 |
| 7 No 7Awg. | 73.87 | 7 | 3.67 | 11.00 | 491.1 | 84.81 | 1.1600 |
| 7 No 8Awg. | 58.56 | 7 | 3.26 | 9.78 | 389.6 | 70.88 | 1.4630 |
| 7 No 9Awg. | 46.44 | 7 | 2.91 | 8.71 | 308.9 | 56.20 | 1.8440 |
| 7 No 10Awg. | 36.83 | 7 | 2.59 | 7.76 | 245.1 | 44.58 | 2.3250 |
| 7 No 11Awg. | 29.21 | 7 | 2.30 | 6.91 | 194.4 | 35.35 | 2.9320 |
| 7 No 12Awg. | 23.16 | 7 | 2.05 | 6.16 | 154.2 | 28.03 | 3.6970 |
| 19 No 5Awg. | 318.70 | 19 | 4.62 | 23.10 | 2129.0 | 326.39 | 0.2698 |
| 19 No 6Awg. | 252.70 | 19 | 4.11 | 20.60 | 1688.0 | 274.55 | 0.3402 |
| 19 No 7Awg. | 200.40 | 19 | 3.67 | 18.30 | 1339.0 | 230.18 | 0.4290 |
| 19 No 8Awg. | 158.90 | 19 | 3.26 | 16.30 | 1062.0 | 192.41 | 0.5409 |
| 19 No 9Awg. | 126.10 | 19 | 2.91 | 14.50 | 842.0 | 152.58 | 0.6821 |
| 19 No 10Awg. | 99.96 | 19 | 2.59 | 12.90 | 667.7 | 121.00 | 0.8601 |
| 37 No 5Awg. | 620.60 | 37 | 4.62 | 32.30 | 4170.0 | 635.43 | 0.1394 |
| 37 No 6Awg. | 492.20 | 37 | 4.11 | 28.80 | 3307.0 | 534.85 | 0.1757 |
| 37 No 7Awg. | 390.30 | 37 | 3.67 | 25.70 | 2623.0 | 448.09 | 0.2216 |
| 37 No 8Awg. | 309.50 | 37 | 3.26 | 22.90 | 2080.0 | 374.67 | 0.2794 |
| 37 No 9Awg. | 245.50 | 37 | 2.91 | 20.30 | 1649.0 | 279.11 | 0.3523 |
| 37 No 10Awg. | 194.70 | 37 | 2.59 | 17.90 | 1308.0 | 235.61 | 0.4443 |

ALUMINIUM CLAD STEEL STRAND

DIN 48201

| Code Number | Area | No. of Wires | Diameter | | Weight | Rated Strength | Max. D.C. Resistance at 20°C |
|-----------------|-----------------|--------------|----------|-------|--------|----------------|------------------------------|
| | | | Wire | Cond. | | | |
| mm ² | mm ² | | mm | mm | kg/km | kN | Ω/km |
| 25 | 24.25 | 7 | 2.10 | 6.30 | 162.0 | 31.56 | 3.5460 |
| 35 | 34.36 | 7 | 2.50 | 7.50 | 229.0 | 44.72 | 2.4990 |
| 50 | 49.48 | 7 | 3.00 | 9.00 | 330.0 | 64.40 | 1.7360 |
| 70 | 65.81 | 19 | 2.10 | 10.5 | 441.0 | 85.65 | 1.3130 |
| 95 | 93.27 | 19 | 2.50 | 12.5 | 626.0 | 121.39 | 0.9250 |
| 120 | 116.99 | 19 | 2.80 | 14.0 | 785.0 | 152.26 | 0.7370 |
| 150 | 147.11 | 37 | 2.25 | 15.7 | 990.0 | 191.46 | 0.5870 |
| 185 | 181.62 | 37 | 2.50 | 17.5 | 1221.0 | 236.38 | 0.4760 |
| 240 | 242.54 | 61 | 2.25 | 20.2 | 1635.0 | 299.05 | 0.3570 |
| 300 | 299.43 | 61 | 2.50 | 22.5 | 2017.0 | 369.20 | 0.2890 |



GALVANIZED STEEL WIRE

The product galvanized steel wire (GSW) is used for the cord of ACSR (Aluminum Conductor Steel Reinforced) conductor. Being the leading enterprise of this industry, the GSW manufactured by Tong-Da has excellent mechanical property, best quality of coating and nice condition of surface.

| Diameter | Tensile Strength | Weight of Zinc |
|-----------|------------------|------------------|
| mm | mPa | g/m ² |
| 1.24~2.25 | 1340~1620 | 185~215 |
| 2.25~3.00 | 1310~1590 | 230 |
| 3.00~3.50 | 1290~1550 | 245 |
| 3.50~4.25 | 1290~1520 | 260 |
| 4.25~4.75 | 1290~1520 | 275 |
| 4.75~5.50 | 1290~1520 | 290 |

| Intensity Level | Wire Diameter | Min. Tensile Strength | Min. Stress With 1% Extension | Min. Extension Percentage When L=250 | Min. Number of 360°twists | Diameter of Testing Mandril |
|-----------------|---------------|-----------------------|-------------------------------|--------------------------------------|---------------------------|-----------------------------|
| | mm | mpa | mpa | % | | multiple |
| General | >1.24~2.25 | 1340 | 1170 | 3.0 | 16 | 1 |
| | >2.25~2.75 | 1310 | 1140 | 3.0 | 16 | 1 |
| | >2.75~3.00 | 1310 | 1140 | 3.5 | 16 | 1 |
| | >3.00~3.50 | 1290 | 1100 | 3.5 | 14 | 1 |
| | >3.50~4.25 | 1290 | 1100 | 4.0 | 12 | 1 |
| | >4.25~4.75 | 1290 | 1100 | 4.0 | 12 | 1 |
| | >4.75~5.50 | 1290 | 1100 | 4.0 | 12 | 1 |
| High | >1.24~2.25 | 1450 | 1310 | 2.5 | 16 | 3 |
| | >2.25~2.75 | 1410 | 1280 | 2.5 | 16 | 3 |
| | >2.75~3.00 | 1410 | 1280 | 3.0 | 16 | 4 |
| | >3.00~3.50 | 1410 | 1240 | 3.0 | 14 | 4 |
| | >3.50~4.25 | 1380 | 1170 | 3.0 | 12 | 4 |
| | >4.25~4.75 | 1380 | 1170 | 3.0 | 12 | 4 |
| Very High | >1.24~2.25 | 1620 | 1450 | 2.0 | 14 | 4 |
| | >2.25~2.75 | 1590 | 1410 | 2.0 | 14 | 4 |
| | >2.75~3.00 | 1590 | 1410 | 2.5 | 12 | 5 |
| | >3.00~3.50 | 1550 | 1380 | 2.5 | 12 | 5 |
| | >3.50~4.25 | 1520 | 1340 | 2.5 | 10 | 5 |
| | >4.25~4.75 | 1520 | 1340 | 2.5 | 10 | 5 |
| | >4.75~5.50 | 1520 | 1270 | 2.5 | 10 | 5 |

GALVANIZED STEEL WIRE STRAND

Chinese Standard GB 1200-88

| Construction | Wire Dia. | Overall Dia. | Total Area | Specific Tensile Strength | | | | | Weight |
|--------------|-----------|--------------|-----------------|-----------------------------------|--------|--------|--------|--------|---------|
| | | | | 1175 | 1270 | 1370 | 1470 | 1570 | |
| | | | | Min. Total Breaking Load of Wires | | | | | |
| | mm | mm | mm ² | kN | kN | kN | kN | kN | kg/100m |
| 1×3 | 2.90 | 6.2 | 19.82 | 23.29 | 25.17 | 27.15 | 29.14 | 31.12 | 15.99 |
| | 3.20 | 6.4 | 24.13 | 28.35 | 30.65 | 33.06 | 35.47 | 37.88 | 19.47 |
| | 3.50 | 7.5 | 28.86 | 33.91 | 36.65 | 39.54 | 42.43 | 45.31 | 23.29 |
| | 4.00 | 8.6 | 37.70 | 44.30 | 47.88 | 51.65 | 8.08 | 59.19 | 30.42 |
| 1×7 | 1.00 | 3.0 | 5.50 | 6.46 | 6.98 | 7.54 | 11.64 | 8.64 | 4.37 |
| | 1.20 | 3.6 | 7.92 | 9.31 | 10.06 | 10.85 | 11.64 | 12.43 | 6.29 |
| | 1.40 | 4.2 | 10.78 | 12.67 | 13.69 | 14.77 | 15.85 | 16.92 | 8.56 |
| | 1.60 | 4.8 | 14.07 | 16.53 | 17.87 | 19.28 | 20.68 | 22.09 | 11.17 |
| | 1.80 | 5.4 | 17.81 | 20.93 | 22.62 | 24.40 | 26.18 | 27.96 | 14.14 |
| | 2.00 | 6.0 | 21.99 | 25.84 | 29.73 | 30.13 | 32.32 | 34.52 | 17.46 |
| | 2.30 | 6.9 | 29.08 | 34.17 | 36.93 | 39.84 | 42.75 | 45.66 | 23.09 |
| | 2.60 | 7.8 | 37.17 | 43.60 | 47.20 | 50.92 | 54.63 | 58.35 | 29.51 |
| | 2.90 | 8.7 | 46.24 | 54.33 | 58.72 | 63.35 | 67.97 | 72.60 | 36.71 |
| | 3.20 | 9.6 | 56.30 | 66.15 | 71.50 | 77.13 | 82.76 | 88.39 | 44.70 |
| | 3.50 | 10.5 | 67.35 | 79.14 | 85.85 | 92.27 | 99.00 | 105.74 | 53.48 |
| | 3.80 | 11.4 | 79.39 | 93.28 | 100.82 | 108.76 | 116.70 | 124.64 | 63.04 |
| | 4.00 | 12.0 | 87.96 | 103.35 | 111.71 | 120.50 | 129.30 | 138.10 | 69.84 |
| 1×19 | 1.60 | 8.0 | 38.20 | 44.88 | 48.51 | 52.33 | 56.15 | 59.97 | 30.40 |
| | 1.80 | 9.0 | 48.35 | 56.81 | 61.40 | 66.24 | 71.07 | 75.91 | 38.49 |
| | 2.00 | 10.0 | 59.69 | 70.14 | 75.81 | 81.78 | 87.74 | 93.71 | 47.51 |
| | 2.30 | 11.5 | 78.94 | 92.75 | 100.25 | 108.15 | 116.04 | 123.94 | 62.84 |
| | 2.60 | 13.0 | 100.88 | 118.53 | 128.12 | 138.20 | 148.29 | 158.38 | 80.30 |
| | 2.90 | 14.5 | 125.50 | 147.46 | 159.38 | 171.93 | 184.48 | 197.03 | 99.90 |
| | 3.20 | 16.0 | 152.81 | 179.55 | 194.06 | 209.35 | 224.63 | 239.91 | 121.64 |
| | 3.50 | 17.5 | 182.80 | 214.79 | 232.16 | 250.44 | 268.72 | 287.00 | 145.51 |
| 4.00 | 20.0 | 238.76 | 280.54 | 303.23 | 327.10 | 350.98 | 374.86 | 190.05 | |

GALVANIZED STEEL WIRE STRAND

ASTM A475

| Number of Wires/Dia. | Approx. Strand Dia. | | Siemem Martin Grade | High Strength Grade | Extra-high Strength Grade | Approx. Weight |
|----------------------|---------------------|-------|---------------------|---------------------|---------------------------|----------------|
| | Inch | mm | kN | kN | kN | |
| 3/2.64 | 7/32 | 5.56 | 10.409 | 15.569 | 21.796 | 131 |
| 3/3.05 | 1/4 | 6.35 | 13.523 | 21.040 | 29.981 | 174 |
| 3/3.05 | 1/4 | 6.35 | - | - | - | 174 |
| 3/3.30 | 9/32 | 7.14 | 15.035 | 23.398 | 33.362 | 204 |
| 3/3.68 | 5/16 | 7.94 | 18.193 | 28.246 | 40.479 | 256 |
| 3/4.19 | 3/8 | 9.52 | 24.732 | 37.187 | 52.489 | 328 |
| 7/1.04 | 1/8 | 3.18 | 4.048 | 5.916 | 8.140 | 49 |
| 7/1.32 | 5/32 | 3.97 | 6.539 | 9.519 | 13.078 | 76 |
| 7/1.57 | 3/16 | 4.76 | 8.452 | 12.677 | 17.748 | 108 |
| 7/1.65 | 3/16 | 4.76 | - | - | - | 118 |
| 7/1.83 | 7/32 | 5.56 | 11.387 | 17.126 | 24.020 | 145 |
| 7/2.03 | 1/4 | 6.35 | 14.012 | 21.129 | 29.581 | 181 |
| 7/2.36 | 9/32 | 7.14 | 18.905 | 28.469 | 39.812 | 243 |
| 7/2.64 | 5/16 | 7.94 | 23.798 | 35.586 | 49.820 | 305 |
| 7/2.77 | 5/16 | 7.94 | - | - | - | 335 |
| 7/3.05 | 3/8 | 9.52 | 30.915 | 48.040 | 68.503 | 407 |
| 7/3.68 | 7/16 | 11.11 | 41.591 | 64.499 | 92.523 | 594 |
| 7/4.19 | 1/2 | 12.70 | 53.823 | 83.627 | 119.657 | 768 |
| 7/4.78 | 9/16 | 14.29 | 69.837 | 108.981 | 155.688 | 991 |
| 7/5.26 | 5/8 | 15.88 | 84.961 | 131.667 | 188.605 | 1211 |
| 19/2.54 | 1/2 | 12.70 | 56.492 | 84.961 | 118.768 | 751 |
| 19/2.87 | 9/16 | 12.49 | 71.616 | 107.202 | 149.905 | 948 |
| 19/3.18 | 5/8 | 15.88 | 80.513 | 124.995 | 178.819 | 1184 |
| 19/3.81 | 3/4 | 19.05 | 116.543 | 181.487 | 259.331 | 1719 |
| 19/4.50 | 7/8 | 22.22 | 159.691 | 248.211 | 354.523 | 2352 |
| 19/5.08 | 1 | 25.40 | 209.066 | 325.610 | 464.839 | 2384 |
| 37/3.63 | 1 | 25.40 | 205.508 | 319.827 | 456.832 | 3061 |
| 37/4.09 | 11/8 | 28.58 | 262.000 | 407.457 | 581.827 | 4006 |
| 37/4.55 | 11/4 | 31.75 | 324.720 | 505.318 | 721.502 | 4833 |

GALVANIZED STEEL WIRE STRAND

BS 183:1972

| Number of Wires/Dia. | Approx. Strand Dia. | Minimum Breaking Load of Strand | | | | | | | Approx. Weight |
|----------------------|---------------------|---------------------------------|-----------|-----------|-----------|------------|------------|------------|----------------|
| | | Grade 350 | Grade 480 | Grade 700 | Grade 850 | Grade 1000 | Grade 1150 | Grade 1300 | |
| | mm | kN | kN | kN | kN | kN | kN | kN | kg/km |
| 3/1.80 | 3.9 | 2.65 | 3.66 | - | - | - | - | - | 60 |
| 3/2.65 | 5.7 | 5.80 | 7.95 | - | - | - | - | - | 130 |
| 3/3.25 | 7.0 | 8.70 | 11.95 | - | - | - | - | - | 195 |
| 3/4.00 | 8.6 | 13.20 | 18.10 | - | - | - | - | - | 295 |
| 4/1.80 | 4.4 | 3.55 | 4.90 | - | - | - | - | - | 80 |
| 4/2.65 | 6.4 | 7.70 | 10.60 | - | - | - | - | - | 172 |
| 4/3.25 | 7.9 | 11.60 | 15.90 | - | - | - | - | - | 260 |
| 4/4.00 | 9.7 | 17.60 | 24.10 | 35.20 | - | - | - | - | 390 |
| 5/1.50 | 4.1 | 3.10 | 4.24 | 6.18 | - | - | - | - | 69 |
| 5/1.80 | 4.9 | 4.45 | 6.10 | 8.90 | - | - | - | - | 95 |
| 5/2.65 | 7.2 | 9.65 | 13.25 | 19.30 | - | - | - | - | 220 |
| 5/3.25 | 8.8 | 14.50 | 19.90 | 29.00 | - | - | - | - | 320 |
| 5/4.00 | 10.8 | 22.00 | 30.15 | 43.95 | - | - | - | - | 490 |
| 7/0.56 | 1.7 | 0.60 | 0.83 | 1.20 | - | 1.70 | 1.98 | 2.24 | 14 |
| 7/0.71 | 2.1 | 0.97 | 1.33 | 1.94 | - | 2.75 | 3.19 | 3.60 | 28 |
| 7/0.85 | 2.6 | 1.39 | 1.90 | 2.80 | - | 3.95 | 4.57 | 5.15 | 31 |
| 7/0.90 | 2.7 | 1.55 | 2.14 | 3.1 | - | 4.45 | 5.12 | 5.80 | 35 |
| 7/1.00 | 3.0 | 1.92 | 2.64 | 3.85 | - | 5.50 | 6.32 | 7.15 | 43 |
| 7/1.25 | 3.8 | 3.01 | 4.10 | 6.00 | - | 8.55 | 9.88 | 11.15 | 67 |
| 7/1.40 | 4.2 | 3.75 | 5.17 | 7.54 | 9.16 | 10.75 | 12.35 | 14.00 | 84 |
| 7/RS* | 4.3 | 3.85 | 5.28 | 7.70 | 9.35 | 11.00 | 12.65 | 14.30 | 86 |
| 7/1.60 | 4.8 | 4.90 | 6.75 | 9.85 | 11.95 | 14.10 | 16.20 | 18.30 | 110 |
| 7/1.80 | 5.4 | 6.23 | 8.55 | 12.45 | - | 17.80 | 20.50 | 23.20 | 140 |

GALVANIZED STEEL WIRE STRAND

BS 183:1972

| Number of Wires/Dia. | Approx. Strand Dia. | Minimum Breaking Load of Strand | | | | | | | Approx. Weight |
|----------------------|---------------------|---------------------------------|-----------|-----------|-----------|------------|------------|------------|----------------|
| | | Grade 350 | Grade 480 | Grade 700 | Grade 850 | Grade 1000 | Grade 1150 | Grade 1300 | |
| | mm | kN | kN | kN | kN | kN | kN | kN | kg/km |
| 7/2.00 | 6.0 | 7.70 | 10.55 | 15.40 | - | 22.00 | 25.30 | 28.60 | 170 |
| 7/2.36 | 7.1 | 10.70 | 14.70 | 21.40 | - | 30.60 | 35.20 | 39.80 | 240 |
| 7/2.65 | 8.0 | 13.50 | 18.50 | 27.00 | - | 38.60 | 44.40 | 50.20 | 300 |
| 7/3.00 | 9.0 | 17.30 | 23.75 | 34.65 | - | 49.50 | 56.90 | 64.30 | 392 |
| 7/3.15 | 9.5 | 19.10 | 26.20 | 38.20 | - | 54.55 | 62.75 | 70.90 | 430 |
| 7/3.25 | 9.8 | 20.30 | 27.85 | 40.65 | - | 58.05 | 66.80 | 75.50 | 460 |
| 7/3.65 | 11.0 | 25.60 | 35.15 | 51.25 | - | 73.25 | 84.20 | 95.20 | 570 |
| 7/4.00 | 12.0 | 30.90 | 42.20 | 61.60 | - | 88.00 | 101.0 | 114.00 | 690 |
| 7/4.25 | 12.8 | 34.75 | 47.65 | 69.50 | - | 99.30 | 114.0 | 129.00 | 780 |
| 7/4.75 | 14.0 | 43.40 | 59.45 | 86.80 | - | 124.0 | 142.7 | 161.3 | 970 |
| 19/1.00 | 5.0 | 5.22 | 7.16 | 10.45 | - | 14.92 | 17.16 | 19.40 | 120 |
| 19/1.25 | 6.3 | 8.16 | 11.19 | 16.32 | - | 23.32 | 26.81 | 30.31 | 180 |
| 19/1.40 | 7.0 | 10.24 | 14.04 | 20.47 | - | 29.25 | 33.64 | 38.02 | 230 |
| 19/1.60 | 8.0 | 13.37 | 18.35 | 26.75 | - | 38.20 | 43.93 | 49.66 | 300 |
| 19/2.00 | 10.0 | 20.90 | 28.65 | 41.78 | 50.74 | 59.69 | 68.64 | 77.60 | 470 |
| 19/2.50 | 12.5 | 32.65 | 44.80 | 65.29 | 79.28 | 93.27 | 107.3 | 121.3 | 730 |
| 19/3.00 | 15.0 | 47.00 | 64.50 | 94.00 | 114.1 | 134.3 | 154.5 | 174.6 | 1050 |
| 19/3.55 | 17.8 | 65.80 | 90.27 | 131.6 | 159.9 | 188.0 | 216.3 | 244.5 | 1470 |
| 19/4.00 | 20.0 | 83.55 | 114.6 | 167.1 | 203.0 | 238.7 | 274.6 | 310.4 | 1870 |
| 19/4.75 | 23.8 | 117.85 | 161.6 | 235.7 | 286.0 | 336.7 | 387.2 | 437.7 | 2630 |

*The construction of this strand consists of six wires of 1.40 mm diameter on a centre wire of 1.50 mm diameter, the diameter of the centre wire shall not be less than 0.08 mm nor more than 0.12 mm greater than the diameter of the outer wire.

COVERED LINE WIRE-ALUMINUM CONDUCTOR

1. Applications

Covered Line Wire is used primarily for 600V overhead secondary distribution lines. It is not an electrically insulated conductor and is treated as bare conductor when installed.

2. Construction

Conductors are aluminum alloy 1350-H19, 6201-T81, or ACSR conductors, concentrically stranded and covered for weather proofing with polyethylene, high density polyethylene (HDPE) or crosslinked polyethylene (XLPE).

3. Standards

ASTM B-230, B-231, B-232 and B-399
ICEA S-61-402 and S-66-524

4. Note

The code words as given apply to conventional polyethylene line wire.

Available in 500 ft coils or long lengths on reels. The data is approximate and subject to normal manufacturing tolerances.

For 6201 aluminum conductors diameter equivalent to ACSR construction or 1350 aluminum equivalent.

Ampacity ratings based on 75°C conductor temperature; 25°C ambient temperature elevation sea level; Emissivity 0.91 coefficient of absorption 0.95; Wind speed 2ft./sec. in sun.

To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.



COVERED LINE WIRE-ALUMINUM CONDUCTOR

| Code Name | Size | No. of Wires | Insulation Thickness | Nominal Diameter | | Rated Strength | Nominal Weight | | | | Ampacity |
|--------------|-------|--------------|----------------------|------------------|--------|----------------|----------------|--------|--------|--------|----------|
| | | | | Bare | OD | | Aluminum | LDPE | HDPE | XLPE | |
| AWG or Kcmil | | mm | | mm | mm | kg | kg/km | kg/km | kg/km | kg/km | A |
| AAC | | | | | | | | | | | |
| Plum | 6 | 7 | 0.762 | 4.674 | 6.198 | 255 | 36.61 | 50.66 | 51.27 | 51.27 | 100 |
| Apricot | 4 | 7 | 0.762 | 5.715 | 7.239 | 400 | 58.19 | 75.57 | 76.33 | 76.33 | 135 |
| Peach | 2 | 7 | 1.143 | 7.417 | 9.703 | 612 | 92.56 | 126.09 | 127.55 | 127.55 | 180 |
| Nectarine | 1 | 7 | 1.143 | 8.433 | 11.481 | 789 | 116.67 | 167.31 | 169.52 | 169.52 | 210 |
| Quince | 1/0 | 7 | 1.524 | 9.347 | 12.395 | 903 | 147.48 | 203.70 | 206.14 | 206.14 | 240 |
| Haw | 1/0 | 19 | 1.524 | 9.474 | 12.522 | 980 | 147.48 | 204.49 | 206.96 | 206.96 | 240 |
| Orange | 2/0 | 7 | 1.524 | 11.786 | 14.834 | 1139 | 186.02 | 257.90 | 261.02 | 261.02 | 280 |
| Lronwood | 2/0 | 19 | 1.524 | 10.643 | 13.691 | 1211 | 186.02 | 250.41 | 253.21 | 253.21 | 280 |
| Fig | 3/0 | 7 | 1.524 | 13.259 | 16.307 | 1377 | 233.64 | 315.53 | 319.08 | 319.08 | 320 |
| Lemon | 3/0 | 19 | 1.524 | 11.938 | 14.986 | 1501 | 233.64 | 306.53 | 309.70 | 309.70 | 320 |
| Olive | 4/0 | 7 | 1.524 | 13.259 | 16.307 | 1728 | 296.14 | 378.04 | 381.58 | 381.58 | 370 |
| Pomegranate | 4/0 | 19 | 1.524 | 13.411 | 16.459 | 1823 | 296.14 | 379.09 | 382.69 | 382.69 | 370 |
| Sassafras | 250 | 19 | 1.524 | 14.580 | 17.628 | 2043 | 348.68 | 439.88 | 443.84 | 443.84 | 420 |
| Mulberry | 266.8 | 19 | 1.524 | 14.605 | 17.653 | 2182 | 372.19 | 463.59 | 467.55 | 467.55 | 460 |
| Basswood | 300 | 19 | 1.524 | 15.951 | 18.999 | 2404 | 419.66 | 520.91 | 525.30 | 525.30 | 478 |
| Anona | 336.4 | 19 | 1.524 | 16.916 | 19.964 | 2697 | 469.51 | 578.04 | 582.75 | 582.75 | 495 |
| Chinquapin | 350 | 19 | 1.524 | 17.221 | 20.269 | 2790 | 488.12 | 598.98 | 603.79 | 603.79 | 525 |
| Molles | 397.5 | 19 | 2.032 | 18.390 | 22.454 | 3123 | 555.08 | 707.29 | 713.88 | 713.88 | 550 |
| Sumac | 450 | 37 | 2.032 | 19.609 | 23.673 | 3719 | 628.00 | 791.79 | 798.89 | 798.89 | 600 |
| Huckleberry | 477 | 37 | 2.032 | 20.193 | 24.257 | 3810 | 665.21 | 834.63 | 841.98 | 841.98 | 610 |
| AAAC | | | | | | | | | | | |
| Maple | 6 | 7 | 0.762 | 5.029 | 6.553 | 503 | 42.41 | 59.53 | 61.01 | 61.01 | 78 |
| Hornbeam | 4 | 7 | 0.762 | 6.350 | 7.874 | 798 | 67.56 | 89.29 | 90.78 | 92.12 | 145 |
| Linden | 2 | 7 | 1.143 | 8.026 | 10.312 | 1270 | 107.44 | 147.33 | 147.33 | 148.82 | 190 |
| Oilnut | 1/0 | 7 | 1.524 | 8.839 | 11.887 | 2023 | 170.99 | 238.11 | 247.03 | 247.03 | 250 |
| Waterash | 2/0 | 7 | 1.524 | 11.354 | 14.402 | 2445 | 215.63 | 291.68 | 302.01 | 302.01 | 290 |
| Shellbark | 3/0 | 7 | 1.524 | 12.751 | 15.799 | 3080 | 271.59 | 358.65 | 370.55 | 370.55 | 335 |
| Planetree | 4/0 | 7 | 1.524 | 14.300 | 17.348 | 3883 | 342.57 | 443.47 | 456.86 | 456.86 | 385 |
| ACSR | | | | | | | | | | | |
| Walnut | 6 | 6/1 | 0.762 | 5.029 | 6.553 | 540 | 36.46 | 69.94 | 71.43 | 71.43 | 105 |
| Butternut | 4 | 6/1 | 0.762 | 6.350 | 7.874 | 844 | 58.04 | 107.15 | 107.15 | 108.64 | 135 |
| Hickory | 4 | 7/1 | 0.762 | 6.528 | 8.052 | 1070 | 58.04 | 120.54 | 122.03 | 123.52 | 135 |
| Pignut | 2 | 6/1 | 1.143 | 8.026 | 10.312 | 1293 | 92.27 | 175.60 | 177.09 | 178.58 | 180 |
| Beech | 2 | 7/1 | 1.143 | 8.357 | 10.643 | 1651 | 92.27 | 199.41 | 199.41 | 202.39 | 180 |
| Chestnut | 1 | 6/1 | 1.143 | 13.970 | 11.303 | 1610 | 116.37 | 217.27 | 218.76 | 220.25 | 210 |
| Almond | 1/0 | 6/1 | 1.524 | 10.109 | 13.157 | 1987 | 146.73 | 282.75 | 284.24 | 287.21 | 235 |
| Pecan | 2/0 | 6/1 | 1.524 | 11.354 | 14.402 | 2404 | 184.98 | 348.23 | 349.72 | 349.72 | 290 |
| Filbert | 3/0 | 6/1 | 1.524 | 12.751 | 15.799 | 3003 | 233.34 | 430.08 | 433.05 | 437.52 | 305 |
| Buckeye | 4/0 | 6/1 | 1.524 | 14.300 | 17.348 | 3787 | 294.21 | 531.27 | 535.74 | 540.20 | 345 |
| Hackberry | 266.8 | 18/1 | 1.524 | 15.469 | 18.517 | 3121 | 372.63 | 525.32 | 528.30 | 534.25 | 356 |

ALL ALUMINIUM CONDUCTORS
TYPE 8 PVC INSULATION (AAC/PVC)

BS 215:Part 1
BS 6485

| Code Name | Nominal Area | Calculated Area | Wires | | Approx. Overall Dia. | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Alum. Weight | PVC Insulated Overall Diameter | PVC Insulated Total Weight | Packing Length |
|-------------|-----------------|-----------------|-------|------|----------------------|-----------------------|------------------------------|--------------|--------------------------------|----------------------------|----------------|
| | | | No. | Dia. | | | | | | | |
| | mm ² | mm ² | | mm | mm | kN | Ω/km | kg/km | mm | kg/km | m±5% |
| Midge | 22 | 23.33 | 7 | 2.06 | 6.2 | 3.99 | 1.227 | 64 | 8.4 | 106 | 3000 |
| Aphis | 25 | 26.44 | 3 | 3.35 | 7.2 | 4.11 | 1.081 | 73 | 9.2 | 133 | 3000 |
| Gnat | 25 | 26.8 | 7 | 2.21 | 6.6 | 4.59 | 1.066 | 73 | 8.8 | 116 | 3000 |
| Weevil | 30 | 31.6 | 3 | 3.66 | 7.9 | 4.86 | 0.9082 | 86 | 10.1 | 158 | 3000 |
| Mosouito | 35 | 37 | 7 | 2.59 | 7.8 | 6.03 | 0.7762 | 101 | 10.0 | 158 | 3000 |
| Ladybird | 40 | 42.8 | 7 | 2.79 | 8.4 | 6.87 | 0.6689 | 117 | 10.6 | 177 | 3000 |
| Ant | 50 | 52.83 | 7 | 3.1 | 9.3 | 8.28 | 0.5419 | 145 | 11.5 | 212 | 3000 |
| Fly | 60 | 63.55 | 7 | 3.4 | 10.2 | 9.9 | 0.4505 | 174 | 12.4 | 249 | 2500 |
| Blueeottle | 70 | 73.55 | 7 | 3.66 | 11.0 | 11.34 | 0.3881 | 202 | 13.2 | 285 | 2500 |
| Earwing | 75 | 78.5 | 7 | 3.78 | 11.4 | 11.94 | 0.3644 | 215 | 13.6 | 302 | 2000 |
| Grasshopper | 80 | 84.1 | 7 | 3.91 | 11.7 | 12.78 | 0.3406 | 230 | 13.9 | 319 | 2000 |
| Clegg | 90 | 95.6 | 7 | 4.17 | 12.5 | 14.53 | 0.2994 | 262 | 14.7 | 359 | 2000 |
| Wasp | 100 | 108 | 7 | 4.39 | 13.21 | 16.0 | 0.2702 | 290 | 15.4 | 393 | 3000 |
| Beetle | 100 | 106.6 | 19 | 2.67 | 13.4 | 17.42 | 0.2704 | 293 | 15.6 | 387 | 3000 |
| Bee | 125 | 132 | 7 | 4.9 | 14.7 | 19.94 | 0.2169 | 361 | 16.5 | 482 | 2500 |
| Cricket | 150 | 157.9 | 7 | 5.36 | 16.1 | 23.85 | 0.1813 | 432 | 18.3 | 587 | 2000 |
| Hornet | 150 | 157.6 | 19 | 3.25 | 16.3 | 27.7 | 0.1825 | 434 | 18.5 | 638 | 3000 |
| Caterpillar | 175 | 186 | 19 | 3.53 | 17.7 | 28.63 | 0.1547 | 512 | 19.9 | 646 | 2500 |
| Chafer | 200 | 213.2 | 19 | 3.78 | 18.9 | 32.4 | 0.1349 | 587 | 21.1 | 733 | 2000 |
| Spider | 225 | 236.9 | 19 | 3.99 | 20.0 | 36.01 | 0.1211 | 652 | 22.2 | 809 | 2000 |
| Cockroach | 250 | 265.7 | 19 | 4.22 | 21.1 | 40.4 | 0.1083 | 731 | 23.3 | 900 | 3000 |
| Butterfly | 300 | 322.7 | 19 | 4.65 | 23.3 | 48.7 | 0.08916 | 888 | 25.5 | 1082 | 3000 |
| Moth | 350 | 373.2 | 19 | 5.0 | 25.0 | 56.37 | 0.07711 | 1027 | 27.2 | 1241 | 2500 |
| Drone | 350 | 373.3 | 37 | 3.58 | 25.1 | 57.45 | 0.07741 | 1029 | 27.3 | 1222 | 2500 |
| Locust | 400 | 428.5 | 19 | 5.36 | 26.8 | 64.73 | 0.0671 | 1179 | 29 | 1416 | 2000 |
| Centipede | 400 | 415.2 | 37 | 3.78 | 26.5 | 63.1 | 0.06944 | 1145 | 28.7 | 1363 | 2000 |
| Maybug | 450 | 486.9 | 37 | 4.09 | 28.6 | 74.01 | 0.05931 | 1342 | 30.8 | 1573 | 2000 |
| Scorpion | 500 | 529.5 | 37 | 4.27 | 29.9 | 79.98 | 0.05441 | 1460 | 32.1 | 1706 | 1500 |
| Cicada | 600 | 628.6 | 37 | 4.65 | 32.6 | 94.95 | 0.04586 | 1733 | 34.5 | 2010 | 1500 |
| Tarantula | 750 | 794.8 | 37 | 5.23 | 36.6 | 120.1 | 0.03627 | 2191 | 38.5 | 2519 | 1000 |

ALL ALUMINIUM CONDUCTORS (AAC)
TYPE 8 PVC INSULATION (AAC/PVC)

DIN 48201:Part 5
BS 6485

| Nominal Area | Calculated Area | Wires | | Approx. Overall Dia. | Nominal Breaking Load | Max. D.C. Resistance at 20°C | Alum. Weight | PVC Insulated Overall Diameter | PVC Insulated Total Weight | Packing Length |
|-----------------|-----------------|-------|------|----------------------|-----------------------|------------------------------|--------------|--------------------------------|----------------------------|----------------|
| | | No. | Dia. | | | | | | | |
| mm ² | mm ² | | mm | mm | kN | Ω/km | kg/km | mm | kg/km | m±5% |
| 16 | 15.89 | 7 | 1.7 | 5.1 | 2.84 | 1.802 | 44 | 7.3 | 77 | 3000 |
| 25 | 24.25 | 7 | 2.1 | 6.3 | 4.17 | 1.181 | 67 | 8.5 | 108 | 3000 |
| 35 | 34.36 | 7 | 2.5 | 7.5 | 5.78 | 0.8317 | 94 | 9.7 | 143 | 3000 |
| 50 | 49.48 | 7 | 3.0 | 9.0 | 7.94 | 0.5787 | 135 | 11.2 | 196 | 3000 |
| 50 | 48.35 | 19 | 1.8 | 9.0 | 8.45 | 0.5950 | 133 | 11.2 | 187 | 3000 |
| 70 | 65.81 | 19 | 2.1 | 10.5 | 11.32 | 0.4371 | 181 | 12.7 | 243 | 2000 |
| 95 | 93.27 | 19 | 2.5 | 12.5 | 15.68 | 0.3085 | 256 | 14.7 | 333 | 2000 |
| 120 | 117.0 | 19 | 2.8 | 14.0 | 18.78 | 0.2459 | 322 | 16.2 | 410 | 2000 |
| 150 | 147.1 | 37 | 2.25 | 15.7 | 25.30 | 0.1960 | 406 | 17.9 | 498 | 2000 |
| 185 | 181.6 | 37 | 2.5 | 17.5 | 30.54 | 0.1587 | 501 | 19.7 | 606 | 2000 |
| 240 | 242.5 | 61 | 2.25 | 20.2 | 39.51 | 0.1191 | 670 | 22.4 | 787 | 2000 |
| 300 | 299.4 | 61 | 2.5 | 22.5 | 47.70 | 0.0965 | 827 | 24.7 | 959 | 2000 |
| 400 | 400.1 | 61 | 2.89 | 26.0 | 60.86 | 0.0722 | 1105 | 28.2 | 1262 | 2000 |
| 500 | 499.8 | 61 | 3.23 | 29.1 | 74.67 | 0.0578 | 1381 | 31.3 | 1561 | 2000 |



**AERIAL BOUNDED CABLE
DUPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

1. Application

To supply 120 volt aerial service for temporary service at construction sites, outdoor or street lighting. For service at 600 volt or lower at a conductor temperature of 75°C maximum.

2. Construction

Concentric strand or compressed 1350-H19 conductor, polyethylene or crosslinked polyethylene insulation, concentric strsand AAC, ACSR, or 6201 alloy neutral messenger.

3. Standards

ASTM B-230, B-231, B-232 and B-399
ICEA S-76-474

4. Note

Designated sizes are ACSR 6/1 diameter equivalent resistivity per ASTM-B-399 for 6201.
Conductor temperature of 75°C ; ambient temperatures of 40°C ; emissivity 0.9; 2ft./sec. wind in sun.
Packaging: Available in 500ft coils and in long lengths on reels.
The data is approximate and subject to normal manufacturing tolerances.
To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.



**AERIAL BOUNDED CABLE
DUPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

| Code Name | Phase Conductors | | | | Bare Natural | | Weight | | | Ampacity A |
|-------------|---------------------|----------------------|------------------|------|---------------------|----------------------|---------------|-------------------|----------------|---------------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength kg | XLPE kg/km | Aluminum kg/km | Total kg/km | |
| | | | Bare | OD | | | | | | |
| AAC | | | | | | | | | | |
| Pekingese | 6-Solid | 1.14 | 4.1 | 6.4 | 6-7 | 255 | 20.8 | 72.9 | 94 | 78 |
| Collie | 6-7 | 1.14 | 4.6 | 6.9 | 6-7 | 255 | 23.8 | 72.9 | 97 | 78 |
| Cocker | 6-7 | 1.52 | 4.6 | 7.7 | 6-7 | 255 | 32.7 | 72.9 | 106 | 78 |
| Dachshund | 4-Solid | 1.14 | 5.2 | 7.5 | 6-7 | 400 | 26.8 | 114.6 | 141 | 103 |
| Spaniel | 4-7 | 1.14 | 5.9 | 8.2 | 6-7 | 400 | 29.8 | 116.1 | 146 | 103 |
| Cairn | 4-7 | 1.52 | 5.9 | 8.9 | 6-7 | 400 | 40.2 | 116.1 | 156 | 103 |
| Doberman | 2-7 | 1.14 | 7.4 | 9.7 | 2-7 | 612 | 38.7 | 184.5 | 223 | 136 |
| Airedale | 1-19 | 1.52 | 8.4 | 11.5 | 1-7 | - | 56.5 | 233.6 | 290 | 158 |
| Basset | 1/0-7 | 1.52 | 9.3 | 12.4 | 1/0-7 | 903 | 64.0 | 294.7 | 359 | 182 |
| Malemure | 1/0-19 | 1.52 | 9.4 | 12.5 | 1/0-7 | 903 | 64.0 | 294.7 | 359 | 182 |
| AAAC | | | | | | | | | | |
| Chihuahua | 6-Solid | 1.14 | 4.1 | 6.4 | 6-7 | 499 | 20.8 | 72.9 | 94 | 78 |
| Vizsla | 6-7 | 1.14 | 4.6 | 6.9 | 6-7 | 499 | 23.8 | 72.9 | 97 | 78 |
| Harrier | 4-Solid | 1.14 | 5.2 | 7.5 | 4-7 | 798 | 26.8 | 116.1 | 143 | 103 |
| Whippet | 4-7 | 1.14 | 5.9 | 8.2 | 4-7 | 798 | 29.8 | 116.1 | 146 | 103 |
| Schnauzer | 2-7 | 1.14 | 7.4 | 9.7 | 2-7 | 1270 | 39.7 | 184.5 | 223 | 136 |
| Afghan | 1/0-7 | 1.52 | 9.3 | 12.4 | 1/0-7 | 2023 | 64.0 | 296.1 | 360 | 182 |
| Heeler | 1/0-19 | 1.52 | 9.4 | 12.5 | 1/0-7 | 2023 | 64.0 | 296.1 | 360 | 182 |
| ACSR | | | | | | | | | | |
| Setter | 6-Solid | 1.14 | 4.1 | 6.4 | 6/6/01 | 540 | 20.8 | 72.9 | 94 | 78 |
| Shepherd | 6-7 | 1.14 | 4.6 | 6.9 | 6/6/01 | 540 | 23.8 | 72.9 | 97 | 78 |
| Retriever | 6-7 | 1.52 | 4.6 | 7.7 | 6/6/01 | 540 | 32.7 | 72.9 | 106 | 78 |
| Eskimo | 4-Solid | 1.14 | 5.2 | 7.5 | 4/6/01 | 844 | 26.8 | 114.6 | 141 | 103 |
| Terrier | 4-7 | 1.14 | 5.9 | 8.2 | 4/6/01 | 844 | 29.8 | 116.1 | 146 | 103 |
| Yorkshirc | 4-7 | 1.52 | 5.9 | 8.9 | 4/6/01 | 844 | 40.2 | 116.1 | 156 | 103 |
| Chow | 2-7 | 1.14 | 7.4 | 9.7 | 2/6/01 | 1293 | 38.7 | 184.5 | 223 | 136 |
| Labrador | 1-19 | 1.52 | 8.4 | 11.5 | 1/6/01 | 1610 | 56.5 | 233.6 | 290 | 158 |
| Bloodhound | 1/0-7 | 1.52 | 9.3 | 12.4 | 1/0-6/1 | 1987 | 64.0 | 294.7 | 359 | 182 |
| Bull | 1/0-19 | 1.52 | 9.4 | 12.5 | 1/0-6/1 | 1987 | 64.0 | 294.7 | 359 | 182 |

**AERIAL BOUNDED CABLE
TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

1. Application

To supply power from the utility's lines to the consumer's weatherhead. For service at 600 volt or less (phase to phase) at a conductor temperature of 75°C maximum for polyethylene insulation or 90°C maximum for crosslinked insulation.

2. Construction

Concentric strand or compressed 1350-H19 conductor, polyethylene or crosslinked polyethylene insulation, concentric strand AAC, ACSR or 6210 alloy neutral messenger.

3. Standards

ASTM B-230, B-231, B-232 and B-339
ICEA S-76-474



**AERIAL BOUNDED CABLE
TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

| Code Name | Phase Conductors | | | | Bare Natural | | Weight | | | Amcapacity |
|-----------|---------------------|----------------------|------------------|------|---------------------|----------------|--------|----------|-------|------------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | Total | |
| | | | Bare | OD | | | | | | |
| AAC | | | | | | | | | | |
| Halotis | 6-Solid | 1.14 | 4.115 | 6.4 | 6-7 | 255 | 42 | 110 | 152 | 78 |
| Pike | 6-7 | 0.76 | 4.67 | 6.2 | 6-7 | 255 | 31 | 112 | 143 | 78 |
| Patella | 6-7 | 1.14 | 4.67 | 7.0 | 6-7 | 255 | 48 | 112 | 159 | 78 |
| Albus | 6-7 | 1.52 | 4.67 | 7.7 | 6-7 | 255 | 64 | 132 | 198 | 78 |
| Fusus | 4-Solid | 1.14 | 5.182 | 7.5 | 4-7 | 400 | 52 | 177 | 229 | 103 |
| Oyster | 4-7 | 1.14 | 5.89 | 8.2 | 4-7 | 400 | 60 | 177 | 237 | 103 |
| Argo | 4-7 | 1.52 | 5.89 | 8.9 | 4-7 | 400 | 80 | 177 | 258 | 103 |
| Clam | 2-7 | 1.14 | 7.42 | 9.7 | 2-7 | 612 | 76 | 281 | 359 | 136 |
| Thia | 2-7 | 1.52 | 7.42 | 10.5 | 2-7 | 612 | 100 | 281 | 383 | 136 |
| Mussel | 2-7 | 1.14 | 7.42 | 9.7 | 2-7 | 612 | 76 | 281 | 359 | 136 |
| Pyrula | 1-7 | 1.52 | 8.33 | 11.4 | 1-7 | 744 | 113 | 356 | 467 | 158 |
| Hyas | 1-19 | 1.52 | 8.43 | 11.5 | 1-7 | 744 | 115 | 356 | 469 | 158 |
| Murex | 1/0-7 | 1.52 | 9.35 | 12.4 | 1/0-7 | 903 | 128 | 385 | 513 | 182 |
| Purpura | 1/0-19 | 1.52 | 9.47 | 12.5 | 1/0-7 | 903 | 130 | 385 | 515 | 182 |
| Nasa | 2/0-7 | 1.52 | 10.52 | 13.6 | 2/0-7 | 1139 | 146 | 566 | 710 | 210 |
| Trophon | 2/0-19 | 1.52 | 10.64 | 13.7 | 2/0-7 | 1139 | 147 | 566 | 713 | 210 |
| Quahog | 3/0-7 | 2.03 | 11.79 | 15.9 | 3/0-7 | 1379 | 214 | 713 | 926 | 242 |
| Lone | 3/0-19 | 2.03 | 11.94 | 16.0 | 3/0-7 | 1379 | 217 | 713 | 929 | 242 |
| Melita | 3/0-19 | 1.52 | 11.94 | 15.0 | 3/0-19 | 1501 | 168 | 713 | 881 | 242 |
| Coquina | 4/0-7 | 1.52 | 13.26 | 16.3 | 4/0-7 | 1737 | 191 | 899 | 1089 | 279 |
| Tusk | 4/0-7 | 2.03 | 13.26 | 17.3 | 4/0-7 | 1737 | 243 | 899 | 1141 | 279 |
| Apus | 4/0-19 | 2.03 | 13.41 | 17.5 | 4/0-7 | 1737 | 246 | 899 | 1144 | 279 |
| Portunus | 4/0-19 | 1.52 | 13.41 | 16.5 | 4/0-19 | 1823 | 194 | 899 | 1091 | 279 |
| Chiton | 266.8-19 | 2.03 | 14.88 | 18.9 | 266.8-19 | 2254 | 277 | 1133 | 1409 | 310 |
| Nannynose | 336.4-19 | 2.03 | 16.92 | 21.0 | 336.4-19 | 2790 | 321 | 1427 | 1749 | 330 |

**AERIAL BOUNDED CABLE
TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

| Code Name | Phase Conductors | | | | Bare Natural | | Weight | | | Ampacity |
|-----------|---------------------|----------------------|------------------|------|---------------------|----------------|--------|----------|-------|----------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | Total | |
| | | | Bare | OD | | | | | | |
| AAAC | | | | | | | | | | |
| Homarus | 6-Solid | 1.14 | 4.115 | 6.4 | 6-7 | 499 | 42 | 118 | 159 | 78 |
| Minex | 6-Solid | 1.14 | 4.115 | 13.3 | 6-7 | 499 | 42 | 118 | 159 | 78 |
| Cabera | 6-7 | 1.14 | 4.65 | 6.9 | 6-7 | 499 | 48 | 118 | 165 | 78 |
| Hippa | 6-7 | 1.14 | 4.65 | 6.9 | 6-7 | 499 | 48 | 118 | 165 | 78 |
| Artemia | 4-Solid | 1.14 | 5.182 | 7.5 | 6-7 | 499 | 52 | 162 | 214 | 103 |
| Maira | 4-7 | 1.14 | 5.89 | 8.2 | 6-7 | 499 | 60 | 188 | 247 | 103 |
| Crab | 4-7 | 1.14 | 5.89 | 8.2 | 6-7 | 499 | 60 | 162 | 222 | 103 |
| Luidia | 4-Solid | 1.14 | 5.182 | 7.5 | 6-7 | 499 | 52 | 162 | 214 | 103 |
| Prawn | 4-Solid | 1.14 | 5.182 | 7.5 | 4-7 | 798 | 52 | 188 | 240 | 103 |
| Metalia | 4-7 | 1.14 | 5.89 | 8.2 | 4-7 | 798 | 60 | 188 | 247 | 103 |
| Barnacles | 4-7 | 1.14 | 5.89 | 8.2 | 4-7 | 798 | 60 | 188 | 247 | 103 |
| Solaster | 2-7 | 1.14 | 7.42 | 9.7 | 4-7 | 798 | 76 | 258 | 333 | 136 |
| Pagarus | 2-7 | 1.52 | 7.42 | 10.5 | 4-7 | 798 | 100 | 258 | 357 | 136 |
| Shrimp | 2-7 | 1.14 | 7.42 | 9.7 | 2-7 | 1270 | 76 | 298 | 374 | 136 |
| Lobster | 2-7 | 1.52 | 7.42 | 10.5 | 2-7 | 1270 | 100 | 298 | 397 | 136 |
| Encope | 1-19 | 1.52 | 8.43 | 11.5 | 2-7 | 1270 | 115 | 347 | 461 | 158 |
| Sanderab | 1/0-7 | 1.52 | 9.35 | 12.4 | 2-7 | 1270 | 128 | 409 | 537 | 182 |
| Echinus | 1/0-19 | 1.52 | 9.47 | 12.5 | 2-7 | 1270 | 130 | 409 | 539 | 182 |
| Gammarus | 1/0-7 | 1.52 | 9.35 | 12.4 | 1/0-7 | 2023 | 128 | 473 | 601 | 182 |
| Leda | 1/0-19 | 1.52 | 9.47 | 12.5 | 1/0-7 | 2023 | 130 | 473 | 603 | 182 |
| Crayfish | 2/0-7 | 1.52 | 10.5 | 13.6 | 2-7 | 1270 | 146 | 487 | 631 | 210 |
| Sipho | 2/0-19 | 1.52 | 10.6 | 13.7 | 2-7 | 1270 | 147 | 487 | 634 | 210 |
| Dungenese | 2/0-7 | 1.52 | 10.5 | 13.6 | 2/0-7 | 2445 | 146 | 595 | 740 | 210 |
| Cyclops | 2/0-7 | 1.52 | 10.6 | 13.7 | 2/0-7 | 2445 | 147 | 595 | 743 | 210 |
| Slug | 3/0-7 | 1.52 | 11.8 | 14.8 | 1/0-7 | 2023 | 165 | 650 | 816 | 242 |

**AERIAL BOUNDED CABLE
TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

| Code Name | Phase Conductors | | | | Bare Natural | | Weight | | | Ampacity |
|------------|---------------------|----------------------|------------------|-------|---------------------|----------------|--------|----------|-------|----------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | Total | |
| | | | Bare | OD | | | | | | |
| ACSR | | | | | | | | | | |
| Fulgur | 3/0-19 | 1.52 | 11.9 | 15.0 | 1/0-7 | 2023 | 168 | 650 | 819 | 242 |
| Balanus | 3/0-19 | 2.03 | 11.9 | 16.0 | 1/0-7 | 2023 | 216 | 650 | 868 | 242 |
| Stonecrab | 3/0-7 | 1.52 | 11.8 | 14.8 | 3/0-7 | 3080 | 165 | 752 | 917 | 242 |
| Flustra | 3/0-7 | 1.52 | 11.9 | 15.0 | 3/0-7 | 3080 | 168 | 752 | 920 | 242 |
| Crisia | 3/0-19 | 2.03 | 11.9 | 16.0 | 3/0-7 | 3080 | 216 | 752 | 969 | 242 |
| Squid | 4/0-7 | 1.52 | 13.3 | 16.3 | 2/0-7 | 2431 | 191 | 820 | 1011 | 279 |
| Arca | 4/0-19 | 1.52 | 13.4 | 16.5 | 2/0-7 | 2431 | 192 | 820 | 1012 | 279 |
| Bugula | 4/0-19 | 2.03 | 13.4 | 17.5 | 2/0-7 | 2431 | 246 | 820 | 1066 | 279 |
| Kingerab | 4/0-7 | 1.52 | 13.3 | 16.3 | 4/0-7 | 3883 | 191 | 948 | 1137 | 279 |
| Lepas | 4/0-19 | 1.52 | 13.4 | 16.5 | 4/0-7 | 3883 | 192 | 948 | 1140 | 279 |
| Cassi | 4/0-19 | 2.03 | 13.4 | 17.5 | 4/0-7 | 3883 | 246 | 948 | 1194 | 279 |
| ACSR | | | | | | | | | | |
| Paludina | 6-Solid | 1.14 | 4.115 | 6.401 | 6-6/1 | 540 | 42 | 112 | 170 | 79 |
| Voluta | 6-7 | 1.14 | 4.67 | 6.960 | 6-6/1 | 540 | 48 | 112 | 176 | 79 |
| Bolma | 6-7 | 1.52 | 4.67 | 7.722 | 6-6/1 | 540 | 64 | 112 | 194 | 79 |
| Scallop | 4-Solid | 1.14 | 5.182 | 7.468 | 6-6/1 | 540 | 52 | 155 | 225 | 138 |
| Strombus | 4-7 | 1.14 | 5.89 | 8.179 | 6-6/1 | 540 | 60 | 155 | 232 | 138 |
| Carnea | 4-7 | 1.52 | 5.89 | 8.941 | 6-6/1 | 540 | 80 | 155 | 253 | 138 |
| Whelk | 4-Solid | 1.14 | 5.182 | 7.468 | 4-6/1 | 844 | 52 | 177 | 258 | 138 |
| Periwinkle | 4-7 | 1.14 | 5.89 | 8.179 | 4-6/1 | 844 | 60 | 177 | 263 | 138 |
| Calma | 4-7 | 1.52 | 5.89 | 8.941 | 4-6/1 | 844 | 80 | 177 | 284 | 138 |
| Cockle | 2-7 | 1.14 | 5.89 | 8.179 | 4-6/1 | 844 | 60 | 247 | 335 | 183 |
| Gebia | 2-7 | 1.52 | 5.89 | 8.941 | 4-6/1 | 844 | 80 | 247 | 354 | 183 |
| Conch | 2-7 | 1.14 | 5.89 | 8.179 | 2-6/1 | 1293 | 60 | 281 | 384 | 183 |
| Uca | 2-7 | 1.52 | 5.89 | 8.941 | 2-6/1 | 1293 | 80 | 281 | 405 | 183 |

**AERIAL BOUNDED CABLE
TRIPLEX SERVICE DROP-ALUMINUM CONDUCTOR**

| Code Name | Phase Conductors | | | | Bare Natural | | Weight | | | Ampacity A |
|-------------|---------------------|----------------------|------------------|--------|---------------------|----------------|--------|----------|-------|---------------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | Total | |
| | | | Bare | OD | | | | | | |
| | mm | mm | mm | mm | | kg | kg/km | kg/km | kg/km | |
| Vermeths | 1-7 | 1.52 | 8.33 | 11.379 | 1-6/1 | 1610 | 113 | 354 | 522 | 210 |
| Atya | 1-19 | 1.52 | 8.33 | 11.379 | 1-6/1 | 1610 | 113 | 430 | 524 | 210 |
| Janthina | 1/0-7 | 1.52 | 8.33 | 11.379 | 2-6/1 | 1293 | 113 | 393 | 549 | 242 |
| Ranella | 1/0-19 | 1.52 | 9.47 | 12.522 | 2-6/1 | 1293 | 130 | 393 | 566 | 242 |
| Neritina | 1/0-7 | 1.52 | 9.35 | 12.395 | 1/0-6/1 | 1987 | 128 | 448 | 644 | 242 |
| Kenia | 1/0-19 | 1.52 | 9.47 | 12.522 | 1/0-6/1 | 1987 | 130 | 448 | 646 | 242 |
| Cavolinia | 2/0-7 | 1.52 | 10.5 | 13.564 | 1-6/1 | 1610 | 146 | 496 | 697 | 279 |
| Clio | 2/0-19 | 1.52 | 10.6 | 13.691 | 1-6/1 | 1610 | 147 | 496 | 698 | 279 |
| Runcina | 2/0-7 | 1.52 | 10.5 | 13.564 | 2/0-6/1 | 2404 | 146 | 564 | 796 | 279 |
| Triton | 2/0-19 | 1.52 | 10.6 | 13.691 | 2/0-6/1 | 2404 | 147 | 564 | 799 | 279 |
| Sanddollar | 3/0-7 | 1.52 | 11.8 | 14.834 | 1/0-6/1 | 1987 | 165 | 625 | 860 | 322 |
| Aega | 3/0-19 | 1.52 | 11.9 | 14.986 | 1/0-6/1 | 1987 | 168 | 625 | 862 | 322 |
| Pisa | 3/0-19 | 2.03 | 11.9 | 16.002 | 1/0-6/1 | 1987 | 216 | 625 | 911 | 322 |
| Cherrystone | 3/0-7 | 1.52 | 11.8 | 14.834 | 3/0-6/1 | 3003 | 165 | 711 | 987 | 322 |
| Mursia | 3/0-19 | 1.52 | 11.9 | 14.986 | 3/0-6/1 | 3003 | 168 | 711 | 990 | 322 |
| Mysis | 3/0-19 | 2.03 | 11.9 | 16.002 | 3/0-6/1 | 3003 | 216 | 711 | 990 | 322 |
| Cuttlefish | 4/0-7 | 1.52 | 13.3 | 16.307 | 2/0-6/1 | 2404 | 191 | 787 | 1066 | 372 |
| Cerapus | 4/0-19 | 1.52 | 13.4 | 16.459 | 2/0-6/1 | 2404 | 192 | 787 | 1069 | 372 |
| Nepatus | 4/0-19 | 2.03 | 13.4 | 17.475 | 2/0-6/1 | 2404 | 246 | 787 | 1121 | 372 |
| Razor | 4/0-7 | 1.52 | 13.3 | 16.307 | 4/0-6/1 | 3788 | 191 | 897 | 1226 | 372 |
| Zuzara | 4/0-19 | 1.52 | 13.4 | 16.459 | 4/0-6/1 | 3788 | 192 | 897 | 1229 | 372 |
| Alima | 4/0-19 | 2.03 | 13.4 | 17.475 | 4/0-6/1 | 3788 | 246 | 897 | 1281 | 372 |
| Callista | 266.8-19 | 2.03 | 15.1 | 19.126 | 3/0-6/1 | 3003 | 280 | 994 | 1384 | 410 |
| Dosinia | 266.8-19 | 2.03 | 15.1 | 19.126 | 266.8-18/1 | 3121 | 280 | 1133 | 1472 | 410 |
| Cowry | 336.4-19 | 2.03 | 16.9 | 20.980 | 4/0-6/1 | 3788 | 320 | 1253 | 1713 | 506 |
| Limpet | 336.4-19 | 2.03 | 16.9 | 20.980 | 336.4-18/1 | 3937 | 320 | 1429 | 1823 | 506 |

**AERIAL BOUNDED CABLE
QUADRUPLIX SERVICE DROP-ALUMINUM CONDUCTOR**

1. Application

Used to supply 3 phase power, usually from a polemounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for crosslinked polyethylene (XLPE) insulated conductors.

2. Construction

Conductors are concentrically stranded, compressed 1350-H19 aluminum. Insulated with either polyethylene or XLP crosslinked polyethylene. Neutral messengers are concentrically stranded 6201, AAC, or ACSR. One conductor is manufactured with an extruded ridge for phase identification.

3. Specifications

Quadruplex service drop cable meets or exceeds the following ASTM specifications:

- B-230 Aluminum Wire, 1350-H19 for electrical Purposes.
 - B-231 Aluminum conductors, Concentric-Lay-Stranded.
 - B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced (ACSR).
 - B-399 Concentric-Lay-Stranded, 6201-T81 Aluminum.
- Service Drop cable meets or exceeds all applicable requirements of ICEA S-79-474.

4. Note

Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201. Conductor temperature of 90°C for XLPE, 75°C for Poly, ambient temperatures of 40°C, emissivity 0.9; 2ft./sec. Wind in sun. To determine current ampacity by conductor size, please consult The National Electric Code, latest edition.



AERIAL BOUNDED CABLE
QUADRUPLEX SERVICE DROP-ALUMINUM CONDUCTOR

| Code Name | Phase Conductors | | | Bare Natural | | Weight | | | Ampacity | |
|--------------|---------------------|----------------------|------------------|--------------|---------------------|----------------|-------|----------|----------|-------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | | Total |
| | | | Bare | OD | | | | | | |
| | | mm | mm | mm | | kg | kg/km | kg/km | kg/km | A |
| AAC | | | | | | | | | | |
| Quarter | 6-Solid | 1.143 | 4.115 | 6.401 | 6-7 | 255.371 | 63 | 149 | 211 | 78 |
| Clydesdale | 4-Solid | 1.143 | 5.182 | 7.468 | 4-7 | 399.613 | 79 | 237 | 315 | 103 |
| Pinto | 4-7 | 1.143 | 5.893 | 8.179 | 4-7 | 399.613 | 89 | 237 | 326 | 136 |
| Mustang | 2-7 | 1.143 | 7.417 | 9.703 | 2-7 | 612.347 | 115 | 377 | 491 | 158 |
| Shire | 1-19 | 1.524 | 8.433 | 11.481 | 1-19 | 743.888 | 171 | 475 | 646 | 158 |
| Libyan | 1/0-7 | 1.524 | 9.347 | 12.395 | 1/0-7 | 902.644 | 192 | 598 | 790 | 182 |
| Criollo | 1/0-19 | 1.524 | 9.474 | 12.522 | 1/0-19 | 902.644 | 193 | 598 | 793 | 182 |
| Orloff | 2/0-7 | 1.524 | 10.516 | 13.564 | 2/0-7 | 1138.511 | 217 | 754 | 973 | 210 |
| Percheron | 2/0-19 | 1.524 | 10.643 | 13.691 | 2/0-19 | 1138.511 | 220 | 754 | 976 | 210 |
| Mongolian | 3/0-7 | 1.524 | 11.786 | 14.834 | 3/0-7 | 1378.914 | 249 | 951 | 1199 | 242 |
| Hanoverian | 3/0-19 | 1.524 | 11.938 | 14.986 | 3/0-19 | 1378.914 | 251 | 951 | 1204 | 242 |
| Singlefoot | 4/0-7 | 1.524 | 13.259 | 16.307 | 4/0-7 | 1737.250 | 286 | 1199 | 1485 | 279 |
| Oldenburg | 4/0-19 | 1.524 | 13.411 | 16.459 | 4/0-19 | 1737.250 | 289 | 1199 | 1490 | 279 |
| AAAC | | | | | | | | | | |
| Bay | 6-Solid | 1.143 | 4.115 | 6.401 | 6-7 | 503.485 | 63 | 155 | 217 | 78 |
| French-conch | 6-7 | 1.143 | 4.674 | 6.960 | 6-7 | 503.485 | 71 | 155 | 226 | 78 |
| German-conch | 4-Solid | 1.143 | 5.182 | 7.468 | 4-7 | 798.318 | 79 | 247 | 324 | 103 |
| Arabian | 4-7 | 1.143 | 5.893 | 8.179 | 4-7 | 784.711 | 89 | 247 | 336 | 103 |
| Belgian | 2-7 | 1.143 | 7.417 | 9.703 | 2-7 | 1270.052 | 115 | 391 | 506 | 136 |
| Saddle | 1-19 | 1.524 | 8.433 | 11.481 | 2-7 | 1270.052 | 171 | 466 | 637 | 158 |
| Plow | 1/0-7 | 1.524 | 9.347 | 12.395 | 1/0-7 | 2023.011 | 192 | 624 | 814 | 182 |
| Sherland | 1/0-19 | 1.524 | 9.474 | 12.522 | 1/0-7 | 2023.011 | 193 | 624 | 817 | 182 |
| Dapple-grey | 2/0-7 | 1.524 | 10.516 | 13.564 | 2/0-7 | 2444.850 | 217 | 786 | 1005 | 210 |

AERIAL BOUNDED CABLE
QUADRUPLEX SERVICE DROP-ALUMINUM CONDUCTOR

| Code Name | Phase Conductors | | | Bare Natural | | Weight | | | Ampacity | |
|--------------|---------------------|----------------------|------------------|--------------|---------------------|----------------|-------|----------|----------|-------|
| | Size & No. of Wires | Insulation Thickness | Nominal Diameter | | Size & No. of Wires | Rated Strength | XLPE | Aluminum | | Total |
| | | | Bare | OD | | | | | | |
| | | mm | mm | mm | | kg | kg/km | kg/km | kg/km | A |
| ACSR | | | | | | | | | | |
| Thoroughbred | 2/0-19 | 1.524 | 10.643 | 13.691 | 2/0-7 | 2444.850 | 220 | 786 | 1007 | 210 |
| Dobbin | 3/0-7 | 1.524 | 11.786 | 14.834 | 3/0-7 | 3079.876 | 249 | 991 | 1238 | 242 |
| Trotter | 3/0-19 | 1.524 | 11.938 | 14.986 | 3/0-7 | 3079.876 | 251 | 991 | 1243 | 242 |
| Pony | 4/0-7 | 1.524 | 13.259 | 16.307 | 4/0-7 | 3880.730 | 286 | 1250 | 1534 | 279 |
| Walking | 4/0-19 | 1.524 | 13.411 | 16.459 | 4/0-7 | 3882.730 | 289 | 1250 | 1539 | 279 |
| ACSR | | | | | | | | | | |
| Morochuca | 6-Solid | 1.143 | 4.115 | 6.401 | 6-6/1 | 539.772 | 63 | 149 | 229 | 78 |
| Chola | 6-7 | 1.143 | 4.674 | 6.960 | 6-6/1 | 539.772 | 71 | 149 | 237 | 78 |
| Morgan | 4-Solid | 1.143 | 5.182 | 7.468 | 4-6/1 | 843.667 | 79 | 238 | 344 | 103 |
| Hackney | 4-7 | 1.143 | 5.893 | 8.179 | 4-6/1 | 843.667 | 90 | 238 | 356 | 103 |
| Palomino | 2-7 | 1.143 | 7.417 | 9.703 | 2-6/1 | 1292.732 | 115 | 377 | 557 | 136 |
| Albino | 1-19 | 1.524 | 8.433 | 11.481 | 1-6/1 | 1610.245 | 171 | 473 | 699 | 158 |
| Standardbred | 1/0-7 | 1.524 | 9.347 | 12.395 | 1/0-6/1 | 1986.724 | 192 | 598 | 859 | 182 |
| Costena | 1/0-19 | 1.524 | 9.474 | 12.522 | 1/0-6/1 | 1986.724 | 193 | 598 | 862 | 182 |
| Chicoteagues | 2/0-7 | 1.524 | 10.516 | 13.564 | 2/0-6/1 | 2404.027 | 217 | 753 | 1060 | 210 |
| Grullo | 2/0-19 | 1.524 | 10.643 | 13.691 | 2/0-6/1 | 2404.027 | 220 | 753 | 1063 | 210 |
| Mare | 3/0-7 | 1.524 | 11.786 | 14.834 | 3/0-6/1 | 3002.766 | 249 | 951 | 1308 | 242 |
| Suffolk | 3/0-19 | 1.524 | 11.938 | 14.986 | 3/0-6/1 | 3002.766 | 251 | 951 | 1313 | 242 |
| Stallion | 4/0-7 | 1.524 | 13.259 | 16.307 | 4/0-6/1 | 3787.477 | 286 | 1198 | 1622 | 279 |
| Appaloosa | 4/0-19 | 1.524 | 13.411 | 16.459 | 4/0-6/1 | 3787.477 | 289 | 1198 | 1627 | 279 |

PVC INSULATED WIRE WITH RATED VOLTAGE UP TO 450/750V

GB 5023.1-7-1997
IEC 60227

1. Application

The PVC Insulated Wires belong to the series of laying wires, which are mainly suitable for laying at the fixed places. They are widely used as connectors of driving, lighting, electric equipment, instrument and telecommunication equipment with rated voltage up to 450/750V (U₀/U). Part of the plastic insulated wires are used at the equipment with AC rated voltage up to 300/300V.

2. Standards

The products adopt the standard GB 5023.1-7-1997 (PVC Insulated Wire with Rated Voltage up to 450/750V), JB 8734.1-5-1998 (PVC Insulated Cable, Wire and Flexible Wire with Rated Voltage up to 450/750V). Among them, GB 5023.1-7-1997 is identical with IEC 60227, and the types are the same as the stipulation of the IEC, technical specification is just the same, and more we have extended the range of the types to be fit for the requirement of the consumers.

3. Type, Name and Application

| Type | Name | Application | Long-time Permissible Working Temperature (°C) |
|--------|--|---|--|
| BV BLV | Copper Conductor, PVC Insulated Wire Aluminum Conductor, PVC Insulated Wire | Fixed laid in the circumstance of indoor, conduit etc. | 70 |
| BV | Heat Resistant Copper Conductor, PVC Insulated Wire at 90°C | Fixed laid in the circumstance of high temperature environment and can be laid indoor, conduit etc. | 90 |
| BVR | Copper Conductor, PVC Insulated Flexible Wire | Fixed laid where flexibility is required. | 70 |
| BVV | Copper Conductor, PVC Insulated and PVC Sheathed Round Wire | Fixed laid where high mechanical protection and moisture are required. They can be laid in the air or underground. | 70 |
| BLVV | Aluminum Conductor, PVC Insulated and PVC Sheathed Round Wire | | |
| BVVB | Copper Conductor, PVC Insulated and PVC Sheathed Flat Wire | | |
| BLVVB | Aluminum Conductor, PVC Insulated and PVC Sheathed Flat Wire | | |
| RV | Copper Conductor, PVC Insulated Flexible Wire | Mainly used at middle and light type movable equipment. Instrument and metess, power and lighting and the places where flexibility is required. | 70 |
| RVB | Copper Conductor, PVC Insulated Flat Flexible Wire | | |
| RVS | Copper Conductor, PVC Insulated Flexible Twisting Connector | | |
| RVV | Copper Conductor, PVC Insulated and PVC Sheathed Round Flexible Wire (Light and Common Type) | | |

PVC INSULATED WIRE WITH RATED VOLTAGE UP TO 450/750V

4. Comprehensive Data of BV Wire

60227 IEC 05

| Nominal Sectional Area | Conductor No./Dia. | Nominal Insulated Thickness | Max.Overall Dia. | Max. D.C. Conductor Resistance at 20°C | Min. Insulated Resistance at 70°C | Weight |
|------------------------|--------------------|-----------------------------|------------------|--|-----------------------------------|--------|
| mm ² | mm | mm | mm | Ω/km | mΩ/km | kg/km |
| 0.5 | 1/0.80 | 0.6 | 2.4 | 36.0 | 0.015 | 8.1 |
| 0.75 | 1/0.97 | 0.6 | 2.6 | 24.5 | 0.012 | 10.6 |
| 1 | 1/1.13 | 0.6 | 2.8 | 18.1 | 0.011 | 13.2 |

5. Standards

60227 IEC 01

| Nominal Sectional Area | Conductor No./Dia. | Nominal Insulated Thickness | Max.Overall Dia. | Max. D.C. Conductor Resistance at 20°C | | Min. Insulated Resistance at 70°C | Weight | |
|------------------------|--------------------|-----------------------------|------------------|--|-------|-----------------------------------|--------|-------|
| | | | | Cu | Al | | Cu | Al |
| mm ² | mm | mm | mm | Ω/km | | mΩ/km | kg/km | |
| 1.5 | 1/1.38 | 0.7 | 3.3 | 12.1 | / | 0.011 | 19.2 | / |
| 1.5 | 7/0.52 | 0.7 | 3.5 | 12.1 | / | 0.010 | 20.6 | / |
| 2.5 | 1/1.78 | 0.8 | 3.9 | 7.41 | 11.8 | 0.010 | 30.8 | 15.0 |
| 4 | 1/2.25 | 0.8 | 4.4 | 4.61 | 7.39 | 0.0085 | 45.5 | 21.0 |
| 6 | 1/2.76 | 0.8 | 4.9 | 3.08 | 4.91 | 0.0070 | 65.0 | 29.0 |
| 10 | 7/1.35 | 1.0 | 7.0 | 1.83 | 3.08 | 0.0065 | 110.0 | 52.0 |
| 16 | 7/1.70 | 1.0 | 8.0 | 1.15 | 1.91 | 0.0060 | 170.0 | 70.0 |
| 25 | 7/2.14 | 1.2 | 10.0 | 0.727 | 1.20 | 0.0060 | 270.0 | 110.0 |
| 35 | 7/2.52 | 1.2 | 11.5 | 0.524 | 0.868 | 0.0040 | 364.0 | 150.0 |
| 50 | 19/1.78 | 1.4 | 13.0 | 0.387 | 0.641 | 0.0045 | 500.0 | 200.0 |
| 70 | 19/2.14 | 1.4 | 15.0 | 0.268 | 0.443 | 0.0035 | 688.0 | 269.0 |
| 95 | 19/2.52 | 1.6 | 17.5 | 0.193 | 0.320 | 0.0035 | 953.0 | 360.0 |
| 120 | 37/2.03 | 1.6 | 19.0 | 0.153 | 0.253 | 0.0032 | 1168.0 | 449.0 |
| 150 | 37/2.25 | 1.8 | 21.0 | 0.124 | 0.206 | 0.0032 | 1466.0 | 551.0 |
| 185 | 37/2.52 | 2.0 | 32.5 | 0.099 | 0.164 | 0.0032 | 1808.0 | 668.0 |

6. BVR Type Copper Conductor PVC Insulated Flexible Wire with Voltage 450/750V

| Nominal Sectional Area | Conductor No./Dia. | Nominal Insulated Thickness | Max.Overall Dia. | Max. D.C. Conductor Resistance at 20°C | Min. Insulated Resistance at 70°C | Weight |
|------------------------|--------------------|-----------------------------|------------------|--|-----------------------------------|--------|
| mm ² | mm | mm | mm | Ω/km | mΩ/km | kg/km |
| 2.5 | 9/0.41 | 0.8 | 4.2 | 7.41 | 0.011 | 33.0 |
| 4 | 19/0.52 | 0.8 | 4.8 | 4.61 | 0.099 | 48.0 |
| 6 | 19/0.64 | 0.8 | 5.6 | 3.08 | 0.0084 | 68.0 |
| 10 | 49/0.52 | 1.0 | 7.6 | 1.83 | 0.0072 | 115.0 |
| 16 | 49/0.64 | 1.0 | 8.8 | 1.15 | 0.0062 | 176.0 |
| 25 | 98/0.58 | 1.2 | 11.0 | 0.727 | 0.0058 | 272.0 |
| 35 | 133/0.58 | 1.2 | 12.5 | 0.524 | 0.0052 | 384.0 |
| 50 | 133/0.68 | 1.4 | 16.5 | 0.387 | 0.0051 | 510.0 |
| 70 | 189/0.68 | 1.4 | 16.5 | 0.268 | 0.0045 | 714.0 |
| 95 | 259/0.68 | 1.6 | 19.5 | 0.139 | 0.0035 | 965.0 |
| 120 | 259/0.76 | 1.8 | 22.0 | 0.153 | 0.0032 | 1210.0 |
| 150 | 259/0.85 | 1.8 | 25.0 | 0.124 | 0.0032 | 1510.0 |

PVC INSULATED POWER CABLE

IEC 60502
Chinese Standard GB 12706-2008

1. Application

The general type cables are suitable for rated AC voltage 0.6/1kV and below electric distribution lines without flame-retardant or fire-resistant requirements.

The flame-retardant type cables are not easy to burn or their flame propagation is limited only in a certain length. These cables are suitable for high installation density places like power station, subway, tunnel, high-building, large industrial enterprise, oil field and mine etc.

The fire-resistant cables can not only operate in normal condition, but also can operate in fire during a certain time. These cables are suitable for power station, subway, high building and other high human density places where having fire-proof and fire-fight requirements.

2. Operating Features

Max. permissible operation temperature of conductor is 70°C.

Max. permissible temperature of conductor during short circuit (max. duration is not more than 5s) is not more than 165°C.

Ambient temperature of installation is not lower than 0°C.

3. Type, Name and Application

| Type | Name | Application |
|---|--|---|
| VV VLV | Copper (Aluminum) conductor, PVC insulated PVC (PE) sheathed power cable | For laying in doors, inducts and kin tunnels, but unable to bear pulling force and pressure. |
| VV ₃₂ VLV ₃₂ | Copper (Aluminum) conductor, PVC insulated steel-tape armored PVC (PE) sheathed power cable | For laying in tunnels in doors, in tunnels and direct in ground, able to bear pulling force and pressure. |
| VV ₃₂ VLV ₃₂ | Copper (Aluminum) conductor, PVC insulated fine steel-wire armored PVC (PE) sheathed power cable | For laying down wells and under water, able to bear certain axis pulling force. |
| VV ₄₂ VLV ₄₂ | Copper (Aluminum) conductor, PVC insulated thick steel-wire armored PVC (PE) sheath power cable | For laying down wells and under water, able to bear certain pulling force. |
| ZR-VV ZR-VLV | Copper (Aluminum) conductor, PVC insulated PVC sheathed flame retardant power cable | For laying in doors, inducts and kin tunnels, but unable to bear pulling force and pressure. |
| ZR-VV ₃₂ ZR-VLV ₃₂ | Copper (Aluminum) conductor, PVC insulated steel-tape armored PVC sheath flame retardant cable power cable | For laying in tunnels in doors, in tunnels and direct in ground, able to bear pulling force and pressure. |
| ZR-VV ₃₂ ZR-VLV ₃₂ | Copper (Aluminum) conductor, PVC insulated fine steel-wire armored PVC sheath flame retardant power cable | For laying down wells and under water, able to bear certain axis pulling force. |
| ZR-VV ₄₂ ZR-VLV ₄₂ | Copper (Aluminum) conductor, PVC insulated thick steel-wire armored PVC sheath flame retardant power cable | For laying down wells and under water, able to bear certain pulling force. |
| NH-VV | Copper (Aluminum) conductor, PVC insulated PVC sheath fire-resisting power cable | For laying in doors, inducts and kin tunnels, but unable to bear pulling force and pressure. |
| NH-VV ₃₂ | Copper (Aluminum) conductor, PVC insulated steel-tape armored PVC sheath fire-resisting power cable | For laying indoors, inducts and in tunnels, able to bear pulling force and pressure. |

PVC INSULATED POWER CABLE

4. Technical Requirement

4.1. Nominal Cross Sectional Area of Conductor

| Master Core | 1 | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
|------------------|---|-----|-----|-----|---|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
| 3+1 Neutral Core | - | - | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 16 | 25 | 35 | 50 | 70 | 70 | 95 | 120 | 150 |
| 3+2 Neutral Core | - | - | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 16 | 25 | 35 | 50 | 70 | 70 | 95 | 120 | 150 |

4.2. Nominal Thickness of Insulation

| Insulated Thickness mm Rated Voltage kV | Sectional Area mm ² | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|-----|-----|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | 1 | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 | 800 | 1000 |
| 0.6/1 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 | 1 | 1.2 | 1.2 | 1.4 | 1.4 | 1.6 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 2.8 | 2.8 | 3.0 |
| 3.6/6 | - | - | - | - | - | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |

4.3. D.C. Resistance of Conductor

| Nominal Sectional Area | D.C. Resistance is no more than at 20°C | | Nominal Cross Section | DC Resistance is no more than at 20°C | | Nominal Cross Section | DC Resistance is no more than at 20°C | |
|------------------------|---|----------|-----------------------|---------------------------------------|----------|-----------------------|---------------------------------------|----------|
| | Copper | Aluminum | | Copper | Aluminum | | Copper | Aluminum |
| mm ² | Ω/km | Ω/km | mm ² | Ω/km | Ω/km | mm ² | Ω/km | Ω/km |
| 1.5 | 12.1 | 18.1 | 35 | 0.524 | 0.868 | 240 | 0.0754 | 0.125 |
| 2.5 | 7.41 | 12.1 | 50 | 0.387 | 0.641 | 300 | 0.0601 | 0.100 |
| 4 | 4.61 | 7.41 | 70 | 0.268 | 0.443 | 400 | 0.0470 | 0.0778 |
| 6 | 3.08 | 4.61 | 95 | 0.193 | 0.320 | 500 | 0.0366 | 0.0605 |
| 10 | 1.83 | 3.08 | 120 | 0.153 | 0.253 | 630 | 0.0283 | 0.0469 |
| 16 | 1.15 | 1.91 | 150 | 0.124 | 0.206 | 800 | 0.0221 | 0.0369 |
| 25 | 0.727 | 1.20 | 185 | 0.0991 | 0.164 | 1000 | 0.0176 | 0.0291 |

4.4. Insulation Resistance

| Test Item | PVC Insulated Cable | | XLPE Insulated Power Cable |
|--|---------------------|------------------|----------------------------|
| | 0.6/1 kV | 3.6/6 kV | |
| Volume resistivity (ρ Ω·cm) Min. at 20°C at top rated temperature Min. | 10 ¹¹ | 10 ¹⁴ | / |
| Kí insulation resistance constant (mΩ·km) Min. at 20°C at top rated temperature Min. | 36.7 | 367 | / |
| | 0.37 | 0.37 | 3.67 |

4.5. Voltage Test

| U ₁ /U | U ₂ | T |
|-------------------|----------------|-----|
| kV | kV | min |
| 0.6/1 | 3.5 | 5 |
| 3.6/6 | 12.5 | 5 |

XLPE INSULATED POWER CABLE

IEC 60502
Chinese Standard GB 12706-2008

1. Application

The products can be produced according to the standard IEC 60502. Our factory can also design and manufacture special XLPE cable according to the other standards required by the customers'. They not only have excellent electric conductivity, mechanical properties, but also have powerful resistance against chemical corrosion, heataging and environmental stress. Their structures are simple. The permissible maximum operating temperature is 90°C. It is convenient for using, and they can be laid with no restriction of different elevation.

2. The Rated Voltage, No. Of Core and Range of Sectional Area

| Area mm ² \ No. of Core | Rate Voltage kV | | | | | | | |
|------------------------------------|-----------------|--------------|--------------|----------------|-----------------|----------------|------------|----------------|
| | 0.6/1 1/1 | 1.8/3 3/3 | 3.6/6 6/6 | 6/10 8.7/10 | 8.7/15 12/15 | 12/20 18/20 | 18/30 - | 21/35 26/35 |
| 1 Core | 1.5~800 | 25~800 | 25~1200 | 25~1200 | 35~1200 | 50~1200 | 50~1200 | 50~1200 |
| 2 Core | 1.5~185 | 25~185 | - | - | - | - | - | - |
| 3 Core | 1.5~400 | 25~400 | 25~400 | 25~400 | 35~400 | 50~400 | 50~400 | 50~400 |
| 4 Core | 2.5~400 | 25~400 | - | - | - | - | - | - |
| 5 Core | 2.5~400 | 25~400 | - | - | - | - | - | - |

3. Type, Name and Application

| Type | | Name | Application |
|--|--|---|--|
| Cu Conductor | Al Conductor | | |
| YJV YJY | YJLV YJLV | XLPE Insulated, PVC or PE Sheathed Power Cable | For laying indoor, tunnel, channel and underground. Unable to bear external mechanical force, but bear the traction force during laid. |
| YJV ₂₂ YJV ₃₂ | YJLV ₂₂ YJLV ₃₂ | XLPE Insulated, Steel Tape Armoured, PVC or PE Sheathed Power Cable | For laying indoor, tunnel, channel and underground. Able to bear external mechanical force, but unable to bear large pulling force. |
| YJV ₁₂ YJV ₁₁ | YJLV ₁₂ YJLV ₁₁ | XLPE Insulated, Fine Steel Wire Armoured, PVC or PE Sheathed Power Cable | For laying in shaft with large difference of level. Able to bear external mechanical force, and moderate pulling force. |
| YJV ₄₂ YJV ₄₁ | YJLV ₄₂ YJLV ₄₁ | XLPE Insulated, Thick Steel Wire Armoured, PVC or PE Sheathed Power Cable | Able to bear positive pressure and pulling force. |

XLPE INSULATED POWER CABLE

4. Main Technical Data

4.1. D.C. Resistance

Conductor resistance of finished cable at 20°C per kilometer is no more than the following values.

| Nominal Sectional Area (mm ²) | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 | 500 | 630 | 800 | 1000 |
|---|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cu Cond. (Ω) | 12.1 | 7.41 | 4.61 | 3.08 | 1.83 | 1.15 | 0.727 | 0.524 | 0.387 | 0.268 | 0.193 | 0.153 | 0.124 | 0.0991 | 0.0754 | 0.0601 | 0.0470 | 0.0366 | 0.0283 | 0.0221 | 0.0176 |
| Al Cond. (Ω) | 18.1 | 12.1 | 7.41 | 4.61 | 3.08 | 1.91 | 1.20 | 0.868 | 0.641 | 0.443 | 0.320 | 0.253 | 0.206 | 0.164 | 0.125 | 0.100 | 0.0778 | 0.0605 | 0.0469 | 0.0367 | 0.0291 |

4.2. Voltage Test and Partial Discharge Test

| Item | Rated Voltage U ₀ /U kV | Rated Voltage U ₀ /U kV | | | | | | | | |
|------------------------|------------------------------------|------------------------------------|-------|-------|-------------|------------------|-------|----------------|-------|-------|
| | | 0.6/1 | 1.8/3 | 3.6/6 | 6/6 6/10 | 8.7/10 8.7/15 | 12/20 | 18/20 18/30 | 21/35 | 26/35 |
| Voltage Test | Test Voltage (kV) | 3.5 | 6.5 | 12.5 | 21 | 30.5 | 42 | 63 | 73.5 | 91 |
| | Test Time (min.) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Partial Discharge Test | Test Voltage (kV) | - | - | 6.2 | 10.4 | 15.1 | 20.8 | 31.1 | 36.3 | 45 |
| | Discharge Capacity (≤pC) | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 10 |



GENERAL RUBBER SHEATHED FLEXIBLE CABLE

Chinese Standard GB 5013-1997

1. Application

The product will be applied to the drive devices, household electric instruments, all kinds of portable electrical equipments and electromotive tools at A.C rated voltage U_0/U up to and including 450/750V.

2. Operating Features

Rated Voltage U_0/U : 300/500V, 450/750V;

Max. Permissible operating temperature of cable conductor: 60°C;

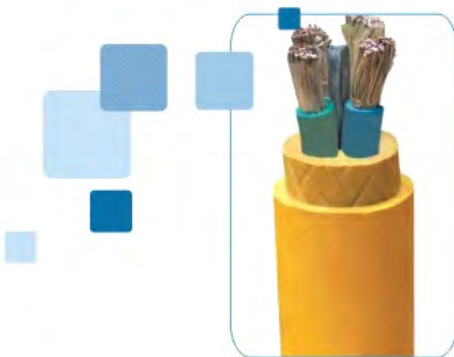
Ambient temperature of installation: YC installation: YC type: $\geq -40^\circ\text{C}$ YCW type: $\geq -15^\circ\text{C}$;

Bending radius of cable: it shall not be 5 times less than cable O.D.;

"W" derivative cable has capacities of weather-resistance and oil-resistance and be suitable for the occasions of outdoors or oil contact.

3. Type, Name and Application

| Type | Name | Rated Voltage V | No. of Core | Nominal Sectional Area mm ² | Application |
|-----------|--|-----------------|----------------------------|---|---|
| YQ YQW | Light-type Rubber Sheathed Flexible Cable | 300/500 | 2, 3 | 0.3~0.5 2, 3, 4, 5 | For portable electric instruments, equipments and tools |
| YZ YZW | Medium-type Rubber Sheathed Flexible Cable | 300/500 | 2, 3, 4, 5 3+1 | 0.75~6 1.5~6 | For portable electric instruments, equipments and tools and can afford larger external forces |
| YC YCW | Heavy-type Rubber Sheathed Cable | 450/750 | 1 2 3, 4 5 3+1 | 1.5~400 1~95 1~150 1~25 1.5~150 | For portable electric instruments, equipments and can afford larger external forces and weather-resistance and oil-resistance |



MINING CABLE

Chinese Standard GB 12972-1991
MT 818-1999

1. Application

Used for the source connection for coal cutter and analogous equipments at rated voltage up to and including 1.9/3.3kV.

2. Operating Features

Power frequency rated voltage U_0/U : 0.38/0.66kV, 0.66/1.14kV, 1.9/3.3kV.

Max. permissible operating temperature of cable conductor: 65°C for 0.38/0.66kV, 0.66/1.14kV and 90°C for 1.9/3.3kV.

Min. permissible operating ambient temperature of cable: -35°C.

Bending radius of cable: shall not be 6 times less than cable OD.

3. Type, Name and Application

| Type | | Name | Application |
|----------------------|-----------------|--|---|
| Non-fire Propagating | Flame Retardant | | |
| UC | MC | Rubber sheathed flexible cable for coal-cutting mining | 0.38/0.66kV Driller connection under the mine shaft |
| UCP | MCP | Screened rubber-jacketed flexible cable for coal-cutting machine | 0.38/0.66kV, 0.66/1.14kV, 1.9/3.3kV Driller connection under the mine shaft |
| UY | MY | Rubber sheathed, movable and flexible cable for mines | 0.38/0.66kV Connecting various coal cutters and similar equipment under the mine shaft |
| UYP | MYP | Screened, Rubber sheathed, movable and flexible cable for mines | 0.38/0.66kV, 0.66/1.14kV Connecting various coal cutters and similar equipment under the mine shaft |
| UYQ | MYQ | Rubber sheathed flexible light-duty cables for mines | 0.3/0.5kV Connecting various coal cutters and similar equipment under the mine shaft |
| UZ | MZ | Electric drill rubber cables for mines | 0.3/0.5kV Power connection of various movable coal cutters under the mine shaft |
| UZP | MZP | Electric drill shielded rubber cables for mines | 0.3/0.5kV Power connection of various movable coal cutters under the mine shaft |



WELDING CABLE

245 EC 81 82
Chinese Standard GB 5013.6-1997

1. Application

This product is suitable for the welding machine of which voltage to the ground is not more than DC 200V and pulsating current value is 400V.

2. Type, Name and Working Temperature

| Type | Name | Working Temperature of Core ≤ (°C) |
|------|--|------------------------------------|
| YH | Natural Rubber Sheath for Welding Cable | 65 |
| YHF | Horoprene Rubber or Other Synthetic Sheath Welding Cable | 65 |

3. Technical Data

| Nominal Sectional Area | No. and Diameter of Wire | Thickness of Section Sheath | Overall Diameter | | Max. Conductor Resistance at 20°C | Reference Weight | |
|------------------------|--------------------------|-----------------------------|------------------|------|-----------------------------------|------------------|---------|
| | | | Min. | Max. | | YH | YHF |
| mm ² | mm | mm | mm | mm | ≤ Ω/km | kg/km | kg/km |
| 10 | 322/0.20 | 1.8 | 7.5 | 9.7 | 1.91 | 146 | 153.51 |
| 16 | 513/0.20 | 2.0 | 9.2 | 11.5 | 1.16 | 218.9 | 230.44 |
| 25 | 798/0.20 | 2.0 | 10.5 | 13.0 | 0.758 | 316.6 | 331.15 |
| 35 | 1121/0.20 | 2.0 | 11.5 | 14.5 | 0.536 | 426 | 439.87 |
| 50 | 1596/0.20 | 2.2 | 13.5 | 17.0 | 0.379 | 592.47 | 610.55 |
| 70 | 2214/0.20 | 2.4 | 15.0 | 19.5 | 0.268 | 790 | 817.52 |
| 95 | 2997/0.20 | 2.6 | 17.0 | 22.0 | 0.198 | 1066.17 | 1102.97 |
| 120 | 1702/0.30 | 2.8 | 19.0 | 24.0 | 0.161 | 1348.25 | 1392.55 |
| 150 | 2135/0.30 | 3.0 | 21.0 | 27.0 | 0.129 | 1678.5 | 1698.72 |
| 185 | 1443/0.40 | 3.2 | 22.0 | 29.0 | 0.106 | 1983.8 | 2020.74 |

4. Delivery Requirements

If cable is packed in circle, its length should be 100m long. If it is packed in bundle, its length should be no less than 100m. The short cable which are no less than 20m are permissible to delivery. The quantity of short cable should be no more than 10% of the whole delivery. If mutual agreement is made, everything will be done according to the agreement.

CONTROL CABLE

Chinese Standard GB 9330-1998

1. Application

The products are suitable for the connection of controlling electrical equipment and instrument monitoring and controlling return circuit, protecting and measuring in power distribution unit under the circumstance that the rated voltage is up to 450/750V for A.C.

2. Standard

The products can be produced according to the Chinese standard GB 9330-1998, and the factory can also manufacture the cables following other standards.

3. Type, Name and Application

| Type | Name | Sectional Area mm ² | No. of Core | Application |
|-------------------|--|--------------------------------|-------------|--|
| KVV | Copper Conductor, PVC Insulated and Sheathed Control Cable | 0.75, 1.0, 1.5, 2.5 | 2~16 | Permanent installation indoors, in cable ditches or pipes. |
| | | 4, 6 | 2~14 | |
| | | 10 | 2~10 | |
| KVVP | Copper Conductor, PVC Insulated and Sheathed, Braiding Shielded Control Cable | 0.75, 1.0, 1.5, 2.5 | 2~61 | Permanent installation indoors, in cable ditches or pipes where shielding is required. |
| | | 4, 6 | 2~14 | |
| | | 10 | 2~10 | |
| KVVP ₂ | Copper Conductor, PVC Insulated and Sheathed, Copper-tape Screened Control Cable | 0.75, 1.0, 1.5, 2.5 | 4~10 | Permanent installation indoors, in cable ditches or pipes where shielding is required. |
| | | 4, 6 | 7~61 | |
| | | 10 | 4~10 | |
| KVV ₂₂ | Copper Conductor, PVC Insulated and Sheathed, Steel-tape Armoured Control Cable | 0.75, 1.0, 1.5, 2.5 | 7~61 | Permanent installation indoors, in cable ditches, pipes or underground. Be able to bear stronger outer mechanical force. |
| | | 4, 6 | 4~14 | |
| | | 10 | 4~14 | |
| KVVR | Copper Conductor, PVC Insulated and Sheathed Flexible Control Cable | 0.5~2.5 | 4~61 | Installation indoors where flexibility and movability are required. |
| KVVRP | Copper Conductor, PVC Insulated and Sheathed, Braiding Shielded Flexible Control Cable | 0.5, 0.75, 1.0 | 4~61 | Installation indoors where flexibility shielding and movability are required. |
| | | 1.5, 2.5 | 4~48 | |
| KYJV | Copper Conductor, XLPE Insulated and PVC Sheathed Control Cable | 0.75, 1.0, 1.5, 2.5 | 2~16 | Permanent installation indoors, in cable ditches or pipes. |
| | | 4, 6 | 2~14 | |



Currency Exchange Rate

March 01, 2010 (From BANK OF CHINA)

| Country | Currency | ISO | In CNY |
|-----------------|----------|-----|---------|
| AUSTRALIA | Dollar | AUD | 6.1292 |
| CANADA | Dollar | CAD | 6.4885 |
| EUROPEAN UNION | Euro | EUR | 9.3140 |
| HONG KONG | Dollar | HKD | 0.8795 |
| JAPAN | Yen | JPY | 0.0767 |
| KOREA(SOUTH) | Won | KRW | 0.0057 |
| MEXICO | Peso | MXN | 0.5352 |
| NEW ZEALAND | Dollar | NZD | 4.7711 |
| RUSSIA | Ruble | RUB | 0.2277 |
| SINGAPORE | Dollar | SGD | 4.8584 |
| SWEDEN | Krona | SEK | 0.9605 |
| SWITZERLAND | Franc | CHF | 6.3591 |
| TAIWAN | Dollar | TWD | 0.2128 |
| UNITED KING DOM | Pound | GBP | 10.3739 |
| UNITED STATES | Dollar | USD | 6.8267 |

Main Property and Date Table of Common Materials Used for Cables & Wires

Metal Materials

| Name | Element Mark | Specific Gravity | Melting Point | Conductivity | Tensile Strength | Relative Elongation | Hardness |
|-----------|-------------------|------------------|---------------|--------------|--------------------|---------------------|----------|
| | g/cm ³ | | °C | % | Kg/mm ² | % | hb |
| Aluminium | Al | 2.703 | 660.2 | 60 | 8~11 | 32~40 | 25 |
| Copper | Cu | 8.89 | 1083 | 95 | 20~24 | 45~50 | 40 |
| Silver | Ag | 10.49 | 960.3 | 100 | 18 | 50 | 25 |
| Tin | Sn | 7.3 | 231.9 | 14 | 1.5~2 | 40 | 5 |
| Lead | Pb | 11.34 | 327.4 | 7.7 | 1.5 | 45 | 5 |
| Zinc | Zn | 7.14 | 419.5 | 27 | 12~17 | 40~50 | 35 |
| Magnesium | Mg | 1.74 | 419.5 | 36 | 20 | 11.5 | 36 |
| Steel | Fe | 7.87 | 1539 | 16 | 22~25 | 25~55 | 50 |

Insulation & Jacket Material Characteristics

| Name | Logogram | Abrasion Resistance (AB) Flammability & Temperature | Specific Gravity g/cm ³ |
|---|--------------|---|------------------------------------|
| Polyvinyl Chloride | PVC | Fair AB, Self Extinguishing -40°C + 105°C | 1.25~1.40 |
| Polyethylene | PE | Fair AB, Inflammable -20°C + 120°C | 0.91~0.96 |
| Cross Linked Polyethylene | XLPE | Fair AB, Inflammable -50°C + 90°C | 0.92~0.95 |
| Low Density Polyethylene | LDPE | Fair AB, Inflammable -80°C + 80°C | 0.91~0.93 |
| Medium Density Polyethylene | MDPE | Fair AB, Inflammable -80°C + 90°C | 0.92~0.94 |
| High Density Polyethylene | HDPE | Fair AB, Inflammable -80°C + 90°C | 0.94~0.97 |
| Chlorinated Polyethylene | CPE/CM | Fair AB, Inflammable -20°C + 120°C | 1.08~1.25 |
| Polypropylene | PP | Fair AB, Inflammable -40°C + 90°C | 0.9~0.91 |
| Polyamide-9 | PA-9 | Excellent AB, Inflammable -55°C + 90°C | 1.14 |
| Natural Rubber | NR | Good AB, Inflammable -60°C + 80°C | 1.30~1.41 |
| Ethylene Propylene Rubber | EPR | Fair AB, Inflammable -40°C + 90°C | 0.86 |
| Ethylene Propylene Rubber | EPM | Fair AB, Inflammable -50°C + 150°C | 0.86 |
| Ethylene Propylene Diene Monomer Rubber | EPDM | Fair AB, Inflammable -50°C + 150°C | 0.86~0.92 |
| Chloroprene Rubber | CR | Good AB, Self Extinguishing -40°C + 80°C | 1.23~1.25 |
| Chlorosulfonated Polyethylene(hypalon) | CSM/CSP/CSPE | Excellent AB, Self Extinguishing -30°C + 100°C | 1.1 |
| Butyl Rubber Isobutylene-IsoPrene Rubber | IIR | Fair AB, Inflammable -60°C + 100°C | 0.91~0.92 |
| Emulsion-polymerized Styrene Butadiene Rubber | SBR | Good AB, Self Extinguishing -60°C + 180°C | 0.90~0.93 |
| Silicone Rubber | SIR/Q | Poor AB, Self Extinguishing -60°C + 180°C | 0.87 |
| Nitrile Butadiene Rubber | NBR | Good AB, Self Extinguishing -40°C + 120°C | 0.91~0.986 |
| Abhesie Bonded Fabric | ABF | - | 0.35 |
| Mica | - | 1820°C | 2.76~3 |



METRIC SYSTEM AREA TO AMERICAN STANDARD AREA CONVERSION

| Metric System ¹⁾ (According to DIN VDE) | American Standard (AWG ²⁾) | |
|---|--|--------------------------|
| Area mm ² | Corresponding Metric System Area mm ² | AWG or MCM ²⁾ |
| 0.75 | 0.653 | 19 AWG |
| | 0.823 | 18 |
| | 1.04 | 17 |
| 1.5 | 1.31 | 16 |
| | 1.65 | 15 |
| | 2.08 | 14 |
| 2.5 | 2.62 | 13 |
| | 3.31 | 12 |
| 4.0 | 4.17 | 11 |
| | 5.26 | 10 |
| 6.0 | 6.63 | 9 |
| | 8.37 | 8 |
| 10.0 | 10.55 | 7 |
| | 13.30 | 6 |
| 16.0 | 16.77 | 5 |
| | 21.15 | 4 |
| 25.0 | 26.67 | 3 |
| | 33.63 | 2 |
| 35.0 | 42.41 | 1 |
| 50.0 | 53.48 | 1/0 |
| 70.0 | 67.43 | 2/0 |
| | 85.03 | 3/0 |
| 95.0 | 107.20 | 4/0 |
| 120.0 | 126.64 | 250 MCM |
| 150.0 | 152.00 | 300 |
| 185.0 | 202.71 | 400 |
| 240.0 | 253.35 | 500 |
| 300.0 | 304.00 | 600 |
| | 354.71 | 700 |
| 400.0 | 405.35 | 800 |
| 500.0 | 506.71 | 1000 |
| 625.0 | | |

1) According to IEC 60228

2) Conductor Area is marked by specified AWG (American Wire Gauge).

As per bigger area marked by MCM (Milli Circular Mill).

ANGLO-AMERICAN CONVERSION TABLE

| Gauge No. | SWG | | BWG | | AWG | |
|-----------|--------|-------|-------|--------|---------|--------|
| | Inch | mm | Inch | mm | Inch | mm |
| 4/0 | 0.4 | 10.16 | 0.454 | 11.532 | 0.46 | 11.684 |
| 3/0 | 0.372 | 9.449 | 0.425 | 10.795 | 0.4096 | 10.404 |
| 2/0 | 0.348 | 8.839 | 0.38 | 9.652 | 0.3648 | 9.266 |
| 1/0 | 0.324 | 8.23 | 0.34 | 8.636 | 0.3249 | 8.252 |
| 1 | 0.3 | 7.62 | 0.3 | 7.62 | 0.2893 | 7.348 |
| 2 | 0.276 | 7.01 | 0.284 | 7.214 | 0.2576 | 6.544 |
| 3 | 0.252 | 6.401 | 0.259 | 6.579 | 0.2294 | 5.827 |
| 4 | 0.232 | 5.893 | 0.238 | 6.045 | 0.2043 | 5.189 |
| 5 | 0.212 | 5.385 | 0.22 | 5.588 | 0.1819 | 4.621 |
| 6 | 0.192 | 4.877 | 0.203 | 5.16 | 0.162 | 4.115 |
| 7 | 0.176 | 4.47 | 0.18 | 4.572 | 0.1443 | 3.665 |
| 8 | 0.16 | 4.064 | 0.165 | 4.191 | 0.1285 | 3.264 |
| 9 | 0.144 | 3.658 | 0.148 | 3.759 | 0.1144 | 2.906 |
| 10 | 0.128 | 3.251 | 0.134 | 3.404 | 0.1019 | 2.583 |
| 11 | 0.116 | 2.946 | 0.12 | 3.048 | 0.0907 | 2.305 |
| 12 | 0.104 | 2.642 | 0.109 | 2.769 | 0.0808 | 2.053 |
| 13 | 0.092 | 2.337 | 0.095 | 2.413 | 0.072 | 1.828 |
| 14 | 0.08 | 2.032 | 0.083 | 2.108 | 0.0641 | 1.628 |
| 15 | 0.072 | 1.829 | 0.072 | 1.829 | 0.0571 | 1.45 |
| 16 | 0.064 | 1.626 | 0.065 | 1.651 | 0.0508 | 1.291 |
| 17 | 0.056 | 1.422 | 0.058 | 1.473 | 0.0453 | 1.15 |
| 18 | 0.048 | 1.219 | 0.049 | 1.245 | 0.0403 | 1.024 |
| 19 | 0.04 | 1.016 | 0.042 | 1.067 | 0.0359 | 0.912 |
| 20 | 0.036 | 0.914 | 0.035 | 0.889 | 0.032 | 0.812 |
| 21 | 0.032 | 0.813 | 0.032 | 0.813 | 0.0285 | 0.723 |
| 22 | 0.028 | 0.711 | 0.028 | 0.711 | 0.02535 | 0.644 |
| 23 | 0.024 | 0.61 | 0.025 | 0.635 | 0.02257 | 0.573 |
| 24 | 0.022 | 0.559 | 0.022 | 0.559 | 0.0201 | 0.511 |
| 25 | 0.02 | 0.508 | 0.02 | 0.508 | 0.0179 | 0.455 |
| 26 | 0.018 | 0.457 | 0.018 | 0.457 | 0.01594 | 0.405 |
| 27 | 0.0164 | 0.417 | 0.016 | 0.406 | 0.0142 | 0.361 |
| 28 | 0.0148 | 0.376 | 0.014 | 0.356 | 0.01264 | 0.321 |
| 29 | 0.0136 | 0.345 | 0.013 | 0.33 | 0.01126 | 0.286 |
| 30 | 0.0124 | 0.315 | 0.012 | 0.305 | 0.01003 | 0.255 |
| 31 | 0.0116 | 0.295 | 0.01 | 0.254 | 0.00893 | 0.227 |
| 32 | 0.0108 | 0.274 | 0.009 | 0.229 | 0.00795 | 0.202 |
| 33 | 0.01 | 0.254 | 0.008 | 0.203 | 0.0071 | 0.18 |
| 34 | 0.0092 | 0.234 | 0.007 | 0.178 | 0.0063 | 0.16 |
| 35 | 0.0084 | 0.213 | 0.005 | 0.127 | 0.0056 | 0.142 |
| 36 | 0.0076 | 0.193 | 0.004 | 0.102 | 0.005 | 0.127 |

SWG: (British) Standard Wire Gauge BWG: Birmingham Standard Wire Gauge AWG: American Wire Gauge

Unit Transformation

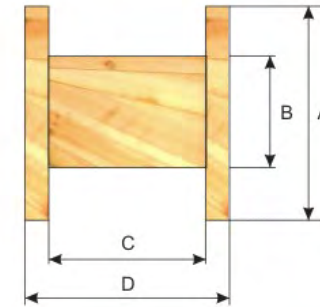
| LENGTH | AREA | WEIGHT |
|------------------|--|------------------------|
| 1 mil= 0.0254 mm | 1 circ.mil= 0.507X10 ⁻³ mm ² | 1 oz= 28.35 g |
| 1 inch= 25.4 mm | 1 MCM= 0.5067mm ² | 1 lb= 0.4536 kg |
| 1 foot= 0.3048 m | 1 sq.inch= 645.16 mm ² | 1 short ton= 0.907 ton |
| 1 yard= 0.9144 m | 1 sq.foot= 0.0929mm ² | 1 long ton= 1.016 ton |
| 1 mile= 1.609 km | 1 sq.yard= 0.836 m ² | 1 kg= 2.205 lb |
| | 1 sq.mile= 2.59 km ² | |

Container Specification

| | Interior Dimension | Door Opening | Tare Weight | Cubic Capacity | Container Pay Load |
|-------------------------|--------------------|--------------|-------------|----------------|--------------------|
| 20' Dry Cargo | L: 5919 mm | W: 2286 mm | 4189 LBS | 1165 CU.FT | 48721 LBS |
| | W: 2340 mm | | | | |
| | H: 2380 mm | H: 2278 mm | 1900 KGS | 33.0 CBM | 22100 KGS |
| 40' Dry Cargo | L: 12045 mm | W: 2289 mm | 6799 LBS | 2377 CU.FT | 60397 LBS |
| | W: 2306 mm | | | | |
| | H: 2379 mm | H: 2278 mm | 3084 KGS | 67.3 CBM | 27396 KGS |
| 40' High Cube Dry Cargo | L: 12056 mm | W: 2340 mm | 6393 LBS | 2648 CU.FT | 65256 LBS |
| | W: 2347 mm | | | | |
| | H: 2684 mm | H: 2585 mm | 2900 KGS | 76.0 CBM | 29600 KGS |

CABLE DRUM SPECIFICATION AND CAPACITY REFERENCE TABLE

Cables Drum Dimensions Draft



The Dimensions in mm are Shown Below

| Drum Number | A Drum Overall Diameter | B Inner Diameter | C Inner Width | D Outer Width |
|-------------|----------------------------|---------------------|------------------|------------------|
| 600 | 630 | 315 | 370 | 450 |
| 800 | 800 | 400 | 520 | 600 |
| 1000 | 1,000 | 500 | 610 | 710 |
| 1250 | 1,250 | 630 | 710 | 810 |
| 1400 | 1,400 | 710 | 810 | 930 |
| 1600 | 1,600 | 900 | 980 | 1,100 |
| 1800 | 1,800 | 1,120 | 960 | 1,100 |
| 2000 | 2,000 | 1,250 | 960 | 1,100 |
| 2200 | 2,240 | 1,400 | 1,190 | 1,350 |
| 2500 | 2,500 | 1,500 | 1,190 | 1,350 |

Note: Size A excluding lagging

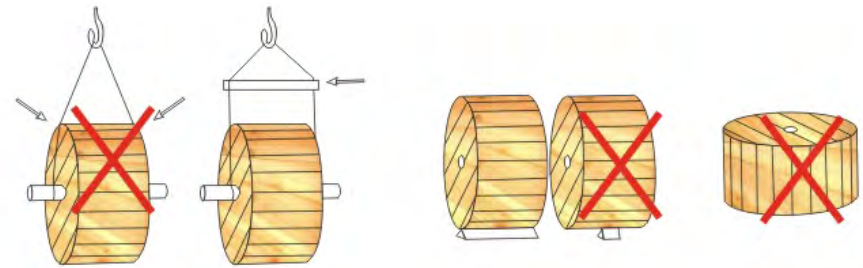
OUTER DIAMETER OF DRUM FOR SELECTIVE CABLE DRUM CAPACITY REFERENCE TABLE

Drum Capacity

| Length/ Cable ϕ mm | Drum ϕ mm | 630 | 800 | 1,000 | 1,250 | 1,400 | 1,600 | 1,800 | 2,000 |
|----------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3 | 8.650 | | | | | | | | |
| 4 | 4.866 | | | | | | | | |
| 5 | 3.114 | 7.057 | | | | | | | |
| 6 | 2.163 | 4.901 | | | | | | | |
| 7 | 1.589 | 3.601 | 6.600 | | | | | | |
| 8 | 1.216 | 2.757 | 5.053 | | | | | | |
| 9 | 961 | 2.178 | 3.992 | 5.850 | | | | | |
| 10 | 779 | 1.764 | 3.234 | 4.835 | | | | | |
| 11 | 643 | 1.458 | 2.673 | 4.062 | | | | | |
| 12 | 541 | 1.225 | 2.246 | 3.461 | 5.789 | | | | |
| 13 | 461 | 1.044 | 1914 | 2.985 | 4.932 | | | | |
| 14 | 397 | 9020 | 13650 | 2.600 | 4.253 | | | | |
| 15 | 346 | 784 | 1.437 | 2.285 | 3.705 | 5.388 | | | |
| 16 | 304 | 689 | 1.263 | 2.024 | 3.256 | 4.735 | 5.263 | | |
| 17 | 269 | 610 | 1.119 | 1.805 | 2.884 | 4.195 | 6.662 | | |
| 18 | 240 | 545 | 998 | 1.620 | 2.573 | 3.742 | 4.159 | 5.105 | |
| 19 | 216 | 489 | 896 | 1.462 | 2.309 | 3.358 | 3.732 | 4.582 | |
| 20 | 195 | 441 | 808 | 1.326 | 2.084 | 3.031 | 3.368 | 4.135 | |
| 21 | 177 | 400 | 733 | 1.209 | 1.890 | 2.749 | 3.055 | 3.751 | |
| 22 | 161 | 365 | 668 | 1.106 | 1.722 | 2.505 | 2.784 | 3.417 | |
| 23 | 147 | 334 | 611 | 1.016 | 1.576 | 2.292 | 2.547 | 3.127 | |
| 24 | 135 | 306 | 561 | 936 | 1.447 | 2.105 | 2.339 | 2.872 | |
| 25 | 125 | 282 | 517 | 865 | 1.334 | 1.940 | 2.156 | 2.646 | |
| 26 | 115 | 261 | 478 | 802 | 1.233 | 1.793 | 1.993 | 2.447 | |
| 27 | | 242 | 444 | 746 | 1.143 | 1.663 | 1.848 | 2.269 | |
| 28 | | 225 | 412 | 696 | 1.063 | 1.546 | 1.719 | 2.110 | |
| 29 | | 210 | 385 | 650 | 991 | 1.441 | 1.602 | 1.967 | |
| 30 | | 196 | 359 | 609 | 926 | 1.347 | 1.497 | 1.838 | |
| 31 | | 184 | 337 | 571 | 867 | 1.261 | 1.402 | 1.721 | |
| 32 | | 172 | 316 | 537 | 814 | 1.184 | 1.316 | 1.615 | |
| 33 | | 162 | 297 | 506 | 765 | 1.113 | 1.237 | 1.519 | |
| 34 | | | 280 | 478 | 721 | 1.049 | 1.116 | 1.431 | |
| 35 | | | 264 | 451 | 680 | 990 | 1.100 | 1.350 | |
| 36 | | | 250 | 427 | 643 | 935 | 1.040 | 1.276 | |
| 37 | | | 236 | 405 | 609 | 886 | 984 | 1.208 | |
| 38 | | | 224 | 385 | 577 | 840 | 933 | 1.145 | |
| 39 | | | 213 | 366 | 548 | 797 | 886 | 1.087 | |
| 40 | | | 202 | 348 | 521 | 758 | 842 | 1.034 | |
| 41 | | | 192 | 332 | 498 | 721 | 802 | 984 | |
| 42 | | | | 316 | 473 | 687 | 764 | 938 | |
| 43 | | | | 302 | 451 | 656 | 729 | 895 | |
| 44 | | | | 289 | 431 | 626 | 696 | 854 | |
| 45 | | | | 276 | 412 | 599 | 665 | 817 | |
| 46 | | | | 265 | 394 | 573 | 637 | 782 | |
| 47 | | | | 254 | 377 | 549 | 610 | 749 | |
| 48 | | | | 244 | 362 | 526 | 585 | 718 | |
| 49 | | | | 234 | 347 | 505 | 561 | 589 | |
| 50 | | | | 224 | 333 | 485 | 539 | 662 | |
| 51 | | | | | 320 | 466 | 518 | 636 | |
| 52 | | | | | 308 | 448 | 498 | 612 | |
| 53 | | | | | 397 | 432 | 480 | 589 | |
| 54 | | | | | 286 | 426 | 462 | 567 | |
| 55 | | | | | 276 | 401 | 445 | 547 | |
| 56 | | | | | 266 | 387 | 430 | 527 | |
| 57 | | | | | 257 | 373 | 415 | 509 | |
| 58 | | | | | 248 | 360 | 401 | 492 | |
| 59 | | | | | 239 | 348 | 387 | 475 | |
| 60 | | | | | 232 | 337 | 374 | 459 | |

DRUM HANDLING INSTRUCTIONS

Cables and Conductors should be installed by trained personnel in accordance with good engineering practices, recognized codes of practice, statutory local requirements, IEE wiring regulations and where relevant in accordance with any specific instructions issued by the company. Cables are often supplied in heavy cable reels and handling these reels can constitute a safety hazard. In particular, dangers may arise during the removal of steel binding straps and during the removal of retaining battens and timbers which may expose projecting nails.

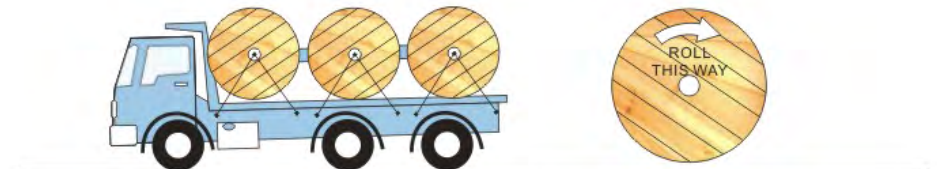


Lifting cable drums using crane

Do not lay drums flat on their sides, use proper stops to prevent drums rolling.



Lift drums on fork trucks correctly.



Secure drums adequately before transportation.

Roll in the direction shown by the arrow.

❖ Specifications subject to change without notice.

Due to the festinate time and limited knowledge of the author, some mistakes and errors in this catalogue are unavoidable. Thus welcome all readers to offer your kind criticism and correction.

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