

圆线同心绞架空导线（GB/T 1179 – 2008）

用途: 供架空电力线路用。

型号名称

| 型号                                                                                                         | 名称       |
|------------------------------------------------------------------------------------------------------------|----------|
| JL                                                                                                         | 铝绞线      |
| JL/G <sub>1</sub> A、JL/ G <sub>1</sub> B、JL/ G <sub>2</sub> A、 JL/ G <sub>2</sub> B 、 JL/ G <sub>3</sub> A | 钢芯铝绞线    |
| JL/G <sub>1</sub> AF、JL/G <sub>2</sub> AF、JL/G <sub>3</sub> AF                                             | 防腐型钢芯铝绞线 |

参数：

JL铝绞线性能

| 规格号 | 面积 mm² | 单线根数<br>n | 直径(mm) |      | 单位长度<br>质量 kg/km | 额定<br>抗拉力 (kN) | 直流电阻20℃<br>Ω/km |
|-----|--------|-----------|--------|------|------------------|----------------|-----------------|
|     |        |           | 单线     | 绞线   |                  |                |                 |
| 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          |

JL/G<sub>1</sub>A、JL/G<sub>1</sub>B、JL/G<sub>2</sub>A、JL/G<sub>2</sub>B、JL/G<sub>3</sub>A 钢芯铝绞线性能

| 标称截面<br>铝/钢 | 规格号  | 钢比<br>% | 面积(mm² ) |      |      | 单线根数 |    | 单线直径 |      | 直径   |      | 单位长度<br>质量 kg/km | 额定抗拉力 (kN)          |                     |                     |                     |                     | 直流电阻<br>20℃Ω/km |
|-------------|------|---------|----------|------|------|------|----|------|------|------|------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|
|             |      |         | 铝        | 钢    | 总和   | 铝    | 钢  | 铝    | 钢    | 钢芯   | 绞线   |                  | JL/G <sub>1</sub> A | JL/G <sub>1</sub> B | JL/G <sub>2</sub> A | JL/G <sub>2</sub> B | JL/G <sub>3</sub> A |                 |
| 16/3        | 16   | 17      | 16       | 2.67 | 18.7 | 6    | 1  | 1.84 | 1.84 | 1.34 | 5.53 | 64.6             | 6.08                | 5.89                | 6.45                | 6.27                | 6.83                | 1.7934          |
| 25/4        | 25   | 17      | 25       | 4.17 | 29.2 | 6    | 1  | 2.30 | 2.30 | 2.30 | 6.91 | 100.9            | 9.13                | 8.83                | 9.71                | 9.42                | 10.25               | 1.1478          |
| 40/6        | 40   | 17      | 40       | 6.67 | 46.7 | 6    | 1  | 2.91 | 2.91 | 2.91 | 8.74 | 161.5            | 14.40               | 13.93               | 15.33               | 14.87               | 16.20               | 0.7174          |
| 63/10       | 63   | 17      | 63       | 10.5 | 73.5 | 6    | 1  | 3.66 | 3.36 | 3.36 | 11.0 | 254.4            | 21.63               | 20.58               | 22.37               | 21.63               | 24.15               | 0.4555          |
| 100/17      | 100  | 17      | 100      | 16.7 | 117  | 6    | 1  | 4.61 | 4.61 | 4.61 | 13.8 | 403.8            | 34.33               | 32.67               | 35.50               | 34.33               | 38.33               | 0.2869          |
| 125/7       | 125  | 6       | 125      | 6.94 | 132  | 18   | 1  | 2.97 | 2.97 | 2.97 | 14.9 | 397.9            | 29.17               | 28.68               | 30.14               | 29.65               | 31.04               | 0.2304          |
| 125/20      | 125  | 16      | 125      | 20.4 | 145  | 26   | 7  | 2.47 | 1.92 | 5.77 | 15.7 | 503.9            | 45.69               | 44.27               | 48.54               | 47.12               | 51.39               | 0.2310          |
| 160/9       | 160  | 6       | 160      | 8.89 | 169  | 18   | 1  | 3.66 | 3.36 | 3.36 | 16.8 | 509.3            | 36.18               | 35.29               | 37.42               | 36.80               | 38.67               | 0.1800          |
| 160/26      | 160  | 16      | 160      | 26.1 | 186  | 26   | 7  | 2.80 | 2.18 | 6.53 | 17.7 | 644.9            | 57.69               | 55.86               | 61.34               | 59.51               | 64.99               | 0.1805          |
| 200/11      | 200  | 6       | 200      | 11.1 | 211  | 18   | 1  | 3.76 | 3.76 | 3.76 | 18.8 | 636.7            | 44.22               | 43.11               | 45.00               | 44.22               | 46.89               | 0.1440          |
| 200/32      | 200  | 16      | 200      | 32.6 | 233  | 26   | 7  | 3.13 | 2.43 | 7.30 | 19.8 | 806.2            | 70.13               | 67.85               | 74.69               | 72.41               | 78.93               | 0.1444          |
| 250/25      | 250  | 10      | 250      | 24.6 | 275  | 22   | 7  | 3.80 | 2.11 | 6.34 | 21.6 | 880.6            | 68.72               | 67.01               | 72.16               | 70.44               | 75.60               | 0.1154          |
| 250/40      | 250  | 16      | 250      | 40.7 | 291  | 26   | 7  | 3.50 | 2.72 | 8.16 | 22.2 | 1007.6           | 87.67               | 84.82               | 93.37               | 90.54               | 98.66               | 0.1155          |
| 315/22      | 315  | 7       | 315      | 21.8 | 337  | 45   | 7  | 2.99 | 1.99 | 5.97 | 23.9 | 1039.6           | 79.03               | 77.51               | 82.08               | 80.55               | 85.13               | 0.0917          |
| 315/50      | 315  | 16      | 315      | 51.3 | 366  | 26   | 7  | 3.93 | 3.05 | 9.16 | 24.9 | 1269.7           | 106.83              | 101.70              | 114.02              | 110.43              | 121.20              | 0.0917          |
| 400/28      | 400  | 7       | 400      | 27.7 | 428  | 45   | 7  | 3.36 | 2.24 | 6.73 | 26.9 | 1320.1           | 98.36               | 96.42               | 102.23              | 100.29              | 106.10              | 0.0722          |
| 400/50      | 400  | 13      | 400      | 51.9 | 452  | 54   | 7  | 3.07 | 3.07 | 9.21 | 27.6 | 1510.3           | 123.04              | 117.85              | 130.30              | 126.67              | 137.56              | 0.0723          |
| 450/30      | 450  | 7       | 450      | 31.1 | 181  | 45   | 7  | 3.57 | 2.38 | 7.14 | 28.5 | 1485.2           | 107.47              | 105.29              | 111.82              | 109.64              | 115.87              | 0.0642          |
| 450/60      | 450  | 13      | 450      | 58.3 | 508  | 54   | 7  | 3.26 | 3.26 | 9.77 | 29.3 | 1699.1           | 138.42              | 132.58              | 146.58              | 142.50              | 154.75              | 0.0643          |
| 500/35      | 500  | 7       | 500      | 34.6 | 535  | 45   | 7  | 3.76 | 2.51 | 7.52 | 30.1 | 1650.2           | 119.41              | 116.99              | 124.25              | 121.83              | 128.74              | 0.0578          |
| 500/65      | 500  | 143     | 500      | 64.8 | 565  | 54   | 7  | 3.43 | 3.43 | 10.3 | 30.9 | 1887.9           | 153.80              | 147.31              | 162.87              | 158.33              | 171.94              | 0.0578          |
| 560/40      | 560  | 7       | 560      | 38.7 | 599  | 45   | 7  | 3.98 | 2.65 | 7.96 | 31.8 | 1848.2           | 133.74              | 131.03              | 139.16              | 136.45              | 144.19              | 0.0516          |
| 560/70      | 560  | 13      | 560      | 70.9 | 631  | 54   | 19 | 3.63 | 2.18 | 10.9 | 32.7 | 2103.4           | 172.59              | 167.63              | 182.52              | 177.56              | 192.45              | 0.0516          |
| 630/45      | 630  | 7       | 630      | 43.6 | 674  | 45   | 7  | 4.22 | 2.81 | 8.44 | 33.8 | 2079.2           | 150.45              | 147.40              | 156.55              | 153.50              | 162.21              | 0.0459          |
| 630/80      | 630  | 13      | 630      | 79.8 | 710  | 54   | 19 | 3.85 | 2.31 | 11.6 | 34.7 | 2366.3           | 191.77              | 186.19              | 202.94              | 197.36              | 213.32              | 0.0459          |
| 710/50      | 710  | 7       | 710      | 49.1 | 759  | 45   | 7  | 4.48 | 2.99 | 8.96 | 35.9 | 2343.2           | 169.56              | 166.12              | 176.43              | 172.99              | 282.81              | 0.0407          |
| 710/90      | 710  | 13      | 710      | 89.9 | 800  | 54   | 19 | 4.09 | 2.45 | 12.3 | 36.8 | 2666.8           | 216.12              | 209.83              | 228.71              | 222.42              | 240.41              | 0.0407          |
| 800/35      | 800  | 4       | 800      | 34.6 | 835  | 72   | 7  | 3.76 | 2.51 | 7.52 | 37.6 | 2480.2           | 167.41              | 164.99              | 172.25              | 169.83              | 176.74              | 0.0361          |
| 800/65      | 800  | 8       | 800      | 66.7 | 867  | 84   | 7  | 3.48 | 3.48 | 10.4 | 38.3 | 2732.7           | 205.33              | 198.67              | 214.67              | 210.00              | 224.00              | 0.0362          |
| 800/100     | 800  | 13      | 800      | 101  | 901  | 54   | 19 | 4.34 | 2.61 | 13.0 | 39.1 | 3004.8           | 243.52              | 235.43              | 257.71              | 250.41              | 270.88              | 0.0362          |
| 900/40      | 900  | 4       | 900      | 38.9 | 939  | 72   | 7  | 3.99 | 2.66 | 7.98 | 39.9 | 2790.2           | 188.33              | 185.61              | 193.78              | 191.06              | 198.83              | 0.0321          |
| 900/75      | 900  | 8       | 900      | 75.0 | 975  | 84   | 7  | 3.69 | 3.69 | 11.1 | 40.6 | 3074.2           | 226.50              | 219.00              | 231.75              | 226.50              | 244.50              | 0.0322          |
| 1000/45     | 1000 | 4       | 1000     | 43.2 | 1043 | 72   | 7  | 4.21 | 2.80 | 8.41 | 42.1 | 3100.3           | 209.26              | 206.23              | 215.31              | 212.28              | 220.93              | 0.0289          |
| 1120/50     | 1120 | 4       | 1120     | 47.3 | 1167 | 72   | 19 | 4.45 | 1.78 | 8.90 | 44.5 | 3464.9           | 234.53              | 331.22              | 241.15              | 237.84              | 247.77              | 0.0258          |
| 1120/90     | 1120 | 8       | 1120     | 91.2 | 1211 | 84   | 19 | 4.12 | 2.47 | 12.4 | 45.8 | 3811.5           | 283.17              | 276.78              | 295.94              | 289.55              | 307.79              | 0.0258          |
| 1250/50     | 1250 | 4       | 1250     | 52.8 | 1303 | 72   | 19 | 4.70 | 1.88 | 9.40 | 47.0 | 3857.1           | 261.75              | 258.06              | 269.14              | 265.44              | 267.53              | 0.0231          |
| 1250/100    | 1250 | 8       | 1250     | 102  | 1352 | 84   | 19 | 4.35 | 2.61 | 13.1 | 47.9 | 4353.9           | 316.04              | 308.91              | 330.29              | 323.16              | 343.52              | 0.0232          |

注:表中性能同样适用于JL/G<sub>1</sub>AF、JL/G<sub>2</sub>AF、JL/G<sub>3</sub>AF防腐型钢芯铝绞线,但单位长度质量应按附录C的计算方法计算。