

Overhead Copper wire



This wire is used on relatively short spans, particularly low and medium voltage distribution line, in more severe weather conditions.



Standard: BS 7884

| Nominal area (mm ²) | Construction conductor No-mm | Overall diameter (mm) | Approx. conductor weight (mm) | Conductor resistance at 20°C (Ω/km) | Minimum breaking (KN) |
|---------------------------------|------------------------------|-----------------------|-------------------------------|-------------------------------------|-----------------------|
| 10 | 7×1.35 | 4.05 | 90 | 1.806 | 4.1 |
| 16 | 7×1.70 | 5.1 | 143 | 1.1385 | 6.5 |
| 25 | 7×2.10 | 6.3 | 219 | 0.7461 | 9.9 |
| 35 | 7×2.50 | 7.5 | 310 | 0.5264 | 14.0 |
| 50 | 7×3.0 | 9.0 | 447 | 0.3656 | 20.2 |
| 50 | 19×1.78 | 8.9 | 438 | 0.3759 | 19.8 |
| 70 | 19×2.10 | 10.5 | 597 | 0.2762 | 26.9 |
| 95 | 19×2.50 | 12.5 | 846 | 0.1949 | 38.1 |
| 120 | 19×2.80 | 14.0 | 1061 | 0.1554 | 47.8 |
| 150 | 37×2.25 | 15.7 | 1337 | 0.1238 | 60.1 |
| 185 | 37×2.50 | 17.5 | 1651 | 0.1003 | 74.2 |
| 240 | 61×2.25 | 20.2 | 2208 | 0.0753 | 99.1 |

Overhead all Aluminum conductor (AAC)



This wire is used on relatively short spans, particularly low and medium voltage distribution line.



Standard: EN 50182 & DIN 48201

| Area (mm ²) | Construction conductor (No-mm) | Overall diameter (mm) | Approx. conductor weight (kg/km) | Conductor resistance at 20°C (Ω/km) | Minimum breaking load (KN) |
|-------------------------|--------------------------------|-----------------------|----------------------------------|-------------------------------------|----------------------------|
| 16 | 7×1.70 | 5.1 | 44 | 1.8017 | 2842 |
| 25 | 7×2.10 | 6.3 | 67 | 1.1806 | 4165 |
| 35 | 7×2.50 | 7.5 | 94 | 0.8332 | 5733 |
| 50 | 7×3.00 | 9.0 | 135 | 0.5786 | 7938 |
| 50 | 19×1.80 | 9.0 | 133 | 0.5948 | 8428 |
| 70 | 19×2.10 | 10.5 | 181 | 0.4370 | 11270 |
| 95 | 19×2.50 | 12.5 | 256 | 0.3084 | 15631 |
| 120 | 19×2.80 | 14.0 | 322 | 0.2459 | 18718 |
| 150 | 37×2.25 | 15.7 | 406 | 0.1960 | 25186 |
| 185 | 37×2.50 | 17.5 | 501 | 0.1588 | 30429 |
| 240 | 61×2.25 | 20.2 | 670 | 0.1192 | 39347 |
| 300 | 61×2.50 | 22.5 | 827 | 0.0965 | 47530 |
| 400 | 61×2.89 | 26.0 | 1105 | 0.0722 | 60662 |
| 500 | 61×3.23 | 29.1 | 1381 | 0.0578 | 74480 |