



• Application

The SANS 1507-4 Cu/XLPE/SWA/PVC 0.6/1kV Power Cable is versatile, finding application in various scenarios such as direct burial in soil, fixed installations in industrial settings, power distribution in commercial buildings, outdoor lighting, urban infrastructure projects, agricultural installations, construction sites, substation interconnections, and hazardous environments. Its robust construction, chemical resistance, and reliable performance make it suitable for a wide range of electrical transmission and distribution needs, ensuring uninterrupted power supply and safety across diverse settings.

• Performance

Electrical Performance: Rated U_0/U : 0.6/1kV, ensuring reliable power transmission.

Chemical Performance: Resistant to chemicals, UV rays, and oils for enhanced durability.

Mechanical Performance: Minimum bending radius of 15 times the overall diameter ensures flexibility during installation.

Terminal Performance:

Maximum Service Temperature: 90°C

Maximum Short-Circuit Temperature: 160°C (max. 5s)

Minimum Service Temperature: -5°C

Fire Performance:

Flame Retardant: Complies with IEC/EN 60332-1-2 standard for fire safety.

Reduced Emission of Halogens Chlorine: <15%

• Construction

Conductor: Plain circular, compacted, or shaped stranded copper conductor for efficient power transmission.

Insulation: XLPE (Cross-linked Polyethylene) for excellent electrical properties and thermal stability.

Bedding: PVC (Polyvinyl Chloride) for additional protection.

Armoring: SWA (Galvanized Steel Wire Armour) provides robust mechanical protection.

Sheath: PVC (Polyvinyl Chloride) or PE (Polyethylene) sheath ensures overall protection and durability.

Core Identification:

Single core: Black

Two cores: Red, Yellow

Three cores: Red, Yellow, Blue

Four cores: Red, Yellow, Blue, Black

Five cores: Red, Yellow, Blue, Black, Green

Sheath Colour: Black with a red stripe for easy identification

• Specification

-SANS 1507-4 Standard: PVC insulated cables with steel tape armoring (STA) for voltages up to and including 1kV

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.

We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

| No. of Cores | Nominal Cross Sectional Area | Physical Performance Parameters | | | Nominal Weight |
|--------------|------------------------------|---------------------------------|---------------------------|---------|----------------|
| | | Nominal Thickness of Insulation | Nominal Dia. Under Armour | Overall | |
| - | mm ² | mm | mm | mm | kg/km |
| 2 | 1.5 | 0.7 | 9.35 | 12.2 | 289 |
| 2 | 2.5 | 0.7 | 10.19 | 13.2 | 343 |
| 2 | 4 | 0.7 | 11.21 | 14.2 | 408 |
| 2 | 6 | 0.7 | 12.35 | 15.4 | 489 |
| 2 | 10 | 0.7 | 13.67 | 16.7 | 612 |
| 2 | 16 | 0.7 | 16.26 | 19.5 | 903 |
| 2 | 25 | 0.9 | 20.83 | 24.2 | 1420 |
| 2 | 35 | 0.9 | 22.83 | 26.2 | 1716 |
| 2 | 50 | 1 | 23.72 | 27.1 | 1753 |
| 2 | 70 | 1.1 | 26.81 | 30.4 | 2267 |
| 2 | 95 | 1.1 | 29.65 | 33.3 | 2842 |
| 2 | 120 | 1.2 | 33.84 | 37.8 | 3700 |
| 2 | 150 | 1.4 | 36.68 | 41.1 | 4410 |
| 2 | 185 | 1.6 | 40.12 | 44.9 | 5267 |
| 2 | 240 | 1.7 | 46.57 | 51.4 | 6973 |
| 3 | 1.5 | 0.7 | 9.83 | 12.6 | 315 |
| 3 | 2.5 | 0.7 | 10.74 | 13.7 | 379 |
| 3 | 4 | 0.7 | 11.84 | 14.8 | 458 |
| 3 | 6 | 0.7 | 13.07 | 16.1 | 557 |
| 3 | 10 | 0.7 | 15.18 | 18.4 | 814 |
| 3 | 16 | 0.7 | 17.24 | 20.4 | 1064 |
| 3 | 25 | 0.9 | 22.05 | 25.5 | 1670 |
| 3 | 35 | 0.9 | 24.21 | 27.6 | 2052 |
| 3 | 50 | 1 | 26.30 | 29.9 | 2315 |
| 3 | 70 | 1.1 | 29.80 | 33.4 | 3013 |
| 3 | 95 | 1.1 | 34.48 | 38.5 | 4167 |
| 3 | 120 | 1.2 | 37.78 | 42.2 | 5036 |
| 3 | 150 | 1.4 | 41.48 | 46.3 | 6065 |
| 3 | 185 | 1.6 | 46.76 | 51.6 | 7681 |
| 3 | 240 | 1.7 | 51.76 | 57.0 | 9598 |

● Technical Parameters

| Physical Performance Parameters | | | | | |
|---------------------------------|------------------------------|---------------------------------|--------------|---------|----------------|
| No. of Cores | Nominal Cross Sectional Area | Nominal Thickness of Insulation | Nominal Dia. | | Nominal Weight |
| | | | Under Armour | Overall | |
| - | mm ² | mm | mm | mm | kg/km |
| 4 | 1.5 | 0.7 | 10.61 | 13.6 | 359 |
| 4 | 2.5 | 0.7 | 11.62 | 14.6 | 428 |
| 4 | 4 | 0.7 | 12.86 | 15.9 | 525 |
| 4 | 6 | 0.7 | 14.93 | 17.9 | 733 |
| 4 | 10 | 0.7 | 16.52 | 19.7 | 950 |
| 4 | 16 | 0.7 | 18.82 | 22.0 | 1261 |
| 4 | 25 | 0.9 | 24.04 | 27.4 | 1977 |
| 4 | 35 | 0.9 | 26.46 | 30.1 | 2468 |
| 4 | 50 | 1 | 29.60 | 33.2 | 2890 |
| 4 | 70 | 1.1 | 34.88 | 38.9 | 4101 |
| 4 | 95 | 1.1 | 38.88 | 43.3 | 5284 |
| 4 | 120 | 1.2 | 44.06 | 48.9 | 6832 |
| 4 | 150 | 1.4 | 48.36 | 53.2 | 8136 |
| 4 | 185 | 1.6 | 52.86 | 58.1 | 9795 |
| 4 | 240 | 1.7 | 58.66 | 64.3 | 12308 |

| Electrical Characteristics | | | | | | | |
|------------------------------|--|---------------------------|-----------|----------|-----------|----------|-----------|
| Nominal Cross Sectional Area | Maximum Conductor DC Resistance at 20 °c | Current Carrying Capacity | | | | | |
| | | 2 Cores | | 3 Cores | | 4 Cores | |
| | | Free Air | in Ground | Free Air | in Ground | Free Air | in Ground |
| mm ² | Ω/km | A | A | A | A | A | A |
| 1.5 | 12.1 | 29 | 25 | 25 | 21 | 25 | 21 |
| 2.5 | 7.41 | 39 | 33 | 33 | 28 | 33 | 28 |
| 4 | 4.61 | 52 | 43 | 44 | 36 | 44 | 36 |
| 6 | 3.08 | 66 | 53 | 56 | 44 | 56 | 44 |
| 10 | 1.83 | 90 | 71 | 78 | 58 | 78 | 58 |
| 16 | 1.15 | 115 | 91 | 99 | 75 | 99 | 75 |
| 25 | 0.727 | 152 | 116 | 131 | 96 | 131 | 96 |
| 35 | 0.524 | 188 | 139 | 162 | 115 | 162 | 115 |
| 50 | 0.387 | 228 | 164 | 197 | 135 | 197 | 135 |
| 70 | 0.268 | 291 | 203 | 251 | 167 | 251 | 167 |
| 95 | 0.193 | 354 | 239 | 304 | 197 | 304 | 197 |
| 120 | 0.153 | 410 | 271 | 353 | 223 | 353 | 223 |
| 150 | 0.124 | 472 | 306 | 406 | 251 | 406 | 251 |
| 185 | 0.0991 | 539 | 343 | 463 | 281 | 463 | 281 |
| 240 | 0.0754 | 636 | 395 | 546 | 324 | 546 | 324 |