

110KV high voltage power cable YJLW/YJQ/YJA

 **SHENXING CABLE GROUP**



APPLICATION



Urban
power grid



Remote
power
transmission



Power
Engineering



Heavy
Industry



High Voltage



Sustainable



Safe
& Reliable



Long service
life

导体



- ✓ 99.99% copper
- ✓ High Conductivity
- ✓ Low loss
- ✓ Low heat dissipation



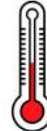
- ✓ 99.99% Aluminum
- ✓ Low cost
- ✓ Light weight
- ✓ Easy to construct



Waterproof



Fire
retardant



High temperature
resistance 90°C

Conductor shield (inner shield)

Semi-conductive materials: prevent tip discharge.

Insulation

XLPE: strong insulation, high temperature resistance, corrosion resistance, WD

Insulation shield (outer shield)

Semi-conductive materials: avoid partial discharge and protect the insulation layer

Metal shielding layer

Copper tape: flame retardant, interference shielding, good mechanical strength and corrosion resistance.

Vertical water barrier

Prevent water from flowing vertically, protect cables and reduce maintenance costs.

Armor layer

Corrugated aluminum & lead sleeve & metal composite polyethylene: high mechanical properties, corrosion resistance, protection against external damage, flame retardant, waterproof.

Outer sheath layer

PE&PVC: Anti-cracking, frost-resistant and waterproof, fire-retardant, oil-resistant, wear-resistant, acid-resistant and alkali-resistant, with long service life.

TECHNOLOGY

Three layers are co-extruded and tightly combined to improve the cable's pressure resistance & service life.

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Experimental performance

Number of cores: 1

Rated voltage: U_0/U 38/66kV、48/66kV、64/110kV

Maximum operating temperature: 90°C

Maximum conductor temperature during short circuit (no more than 5 seconds): 250°C

The laying temperature is not less than: 0°C

Cable bending radius: $20D \pm 5\%$



Accept Customization

110KV--YJLW02 (03) 、YJLW02 (03) -Z

| NO. OF COND. | WD (mm) | CSA (mm ²) | Insulation THK mm | Sheath THK (mm) | Armor THK mm | OD (mm) | weight kg/km | | 20°C Resistance Ω/km |
|--------------------|------------|---------------------------|-------------------------|-----------------------|--------------------|------------|-----------------|----------|----------------------------|
| | | | | | | | PVC Sheath | PESheath | |
| Single Core | 18.4 | 240 | 19.0 | 4.0 | 2.0 | 88.0 | 7844 | 7327 | 0.0754 |
| | 20.6 | 300 | 18.5 | 4.0 | 2.0 | 91.0 | 8464 | 7941 | 0.0601 |
| | 23.8 | 400 | 17.5 | 4.0 | 2.0 | 93.0 | 9530 | 8995 | 0.0470 |
| | 26.6 | 500 | 17.0 | 4.0 | 2.0 | 96.0 | 10939 | 10307 | 0.0366 |
| | 30.0 | 630 | 16.5 | 4.5 | 2.0 | 100.0 | 12086 | 11441 | 0.0283 |
| | 34.8 | 800 | 16.0 | 4.5 | 2.0 | 104.0 | 14685 | 14006 | 0.0221 |
| | 38.8 | 1000 | 16.0 | 4.5 | 2.3 | 111.0 | 17181 | 16394 | 0.0176 |
| | 42.0 | 1200 | 16.0 | 5.0 | 2.3 | 115.0 | 19403 | 18586 | 0.0151 |
| | 45.2 | 1400 | 16.0 | 5.0 | 2.3 | 118.0 | 21261 | 20423 | 0.0129 |
| | 48.0 | 1600 | 16.0 | 5.0 | 2.3 | 121.0 | 23719 | 22858 | 0.0113 |
| | 50.8 | 1800 | 16.0 | 5.0 | 2.3 | 123.0 | 25813 | 24937 | 0.0101 |
| | 54.0 | 2000 | 16.0 | 5.0 | 2.3 | 127.0 | 28035 | 27130 | 0.0090 |
| | 57.4 | 2200 | 16.0 | 5.0 | 2.3 | 130.0 | 30209 | 29215 | 0.0083 |
| | 61.2 | 2500 | 16.0 | 5.0 | 2.3 | 134.0 | 33387 | 32065 | 0.0073 |

The above data is for reference only.

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YJQ03-Z

Accept Customization

| NO. OF COND. | WD (mm) | CSA (mm ²) | Insulation THK (mm) | Sheath THK (mm) | Aarmor THK mm | OD (mm) | weight kg/km | 20°C Resistance Ω/km |
|--------------------|------------|---------------------------|---------------------------|-----------------------|---------------------|------------|-----------------|----------------------------|
| Single Core | 18.4 | 240 | 19.0 | 4.0 | 2.6 | 88.0 | 11712 | 0.0754 |
| | 20.6 | 300 | 18.5 | 4.0 | 2.6 | 91.0 | 12481 | 0.0601 |
| | 23.8 | 400 | 17.5 | 4.0 | 2.7 | 93.0 | 13612 | 0.0470 |
| | 26.6 | 500 | 17.0 | 4.0 | 2.7 | 96.0 | 14920 | 0.0366 |
| | 30.0 | 630 | 16.5 | 4.5 | 2.8 | 100.0 | 16781 | 0.0283 |
| | 34.8 | 800 | 16.0 | 4.5 | 2.9 | 104.0 | 19157 | 0.0221 |
| | 38.8 | 1000 | 16.0 | 4.5 | 3.0 | 111.0 | 22277 | 0.0176 |
| | 42.0 | 1200 | 16.0 | 5.0 | 3.1 | 115.0 | 25275 | 0.0151 |
| | 45.2 | 1400 | 16.0 | 5.0 | 3.2 | 118.0 | 27951 | 0.0129 |
| | 48.0 | 1600 | 16.0 | 5.0 | 3.2 | 121.0 | 30569 | 0.0113 |
| | 50.8 | 1800 | 16.0 | 5.0 | 3.3 | 123.0 | 33297 | 0.0101 |
| | 54.0 | 2000 | 16.0 | 5.0 | 3.4 | 127.0 | 36026 | 0.0090 |

YJA03、YJ03-Z、YJLA03、YJLA03-Z

| NO. OF COND. | WD (mm) | CSA (mm ²) | Insulation THK (mm) | Sheath THK (mm) | Copper wire diameter mm | OD (mm) | weight kg/km | | 20°C Resistance Ω/km | |
|--------------------|------------|---------------------------|---------------------------|-----------------------|----------------------------------|------------|-----------------|-------|----------------------------|--------|
| | | | | | | | CU | AL | CU | AL |
| Single Core | 18.4 | 240 | 19.0 | 4.0 | 95 | 76.0 | 6503 | 5027 | 0.0754 | 0.1250 |
| | 20.6 | 300 | 18.5 | 4.0 | 95 | 77.0 | 7096 | 5250 | 0.0601 | 0.1000 |
| | 23.8 | 400 | 17.5 | 4.0 | 95 | 79.0 | 8113 | 5648 | 0.0470 | 0.0778 |
| | 26.6 | 500 | 17.0 | 4.0 | 95 | 83.0 | 9217 | 6186 | 0.0366 | 0.0605 |
| | 30.0 | 630 | 16.5 | 4.5 | 95 | 85.0 | 10305 | 6607 | 0.0283 | 0.0469 |
| | 34.8 | 800 | 16.0 | 4.5 | 95 | 90.0 | 12772 | 7597 | 0.0221 | 0.0367 |
| | 38.8 | 1000 | 16.0 | 4.5 | 95 | 94.0 | 14918 | 8449 | 0.0176 | 0.0291 |
| | 42.0 | 1200 | 16.0 | 5.0 | 95 | 98.0 | 17035 | 9273 | 0.0151 | 0.0247 |
| | 45.2 | 1400 | 16.0 | 5.0 | 95 | 102.0 | 19268 | 10212 | 0.0129 | 0.0212 |
| | 48.0 | 1600 | 16.0 | 5.0 | 95 | 105.0 | 21333 | 10893 | 0.0113 | 0.0186 |
| | 50.8 | 1800 | 16.0 | 5.0 | 95 | 107.0 | 23363 | 11720 | 0.0101 | 0.0165 |
| | 54.0 | 2000 | 16.0 | 5.0 | 95 | 112.0 | 25651 | 12713 | 0.0090 | 0.0149 |
| | 57.4 | 2200 | 16.0 | 5.0 | 95 | 115.0 | 27514 | 13328 | 0.0083 | 0.0135 |
| | 61.2 | 2500 | 16.0 | 5.0 | 95 | 119.0 | 30291 | 14171 | 0.0073 | 0.0119 |

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