

# Medium voltage power cable

## Introduction

Copper, aluminum or aluminum alloy conductor; single core or three cores; cross-linked polyethylene or polyvinyl chloride or ethylene propylene rubber insulation; no armor or metal tape armor or metal wire armor (23, 32, 42, 43, 62, 63); polyvinyl chloride or polyethylene or halogen-free low-smoke polyolefin outer sheath. Rated voltage 3.6/6kV, 6/10kV, 8.7/15kV, 12/20kV, 18/20kV, 21/35kV, 26/35kV. Suitable for fixed installation with rated voltage of 6kV to 35kV in distribution network or industrial equipment. For example, cables for various large buildings, external lines of industrial enterprises, wind power main lines, photovoltaic main lines, thermal power main lines, railways, and subways.

## Model

YJV YJV22 YJLV YJLV22 YJLHV  
YJLHV22 VV VV22 VLV VLV22 VLHV  
VLHV22 etc. flame retardant types  
A B C D halogen-free and low  
smoke and/or fire resistance (WD  
NH) requirements etc.

## Application Areas

Power transmission for reliable  
medium-voltage grids.

Industrial power applications

Used in new energy power  
transmission

Power supply systems



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## Parameters

Rated Voltage	3.6/6kV、6/10kV、 8.7/15kV12/20kV、18/30kV	Conductor material	Copper or aluminum
Conductor structure	Single or twisted conductor	Insulation Materials	Cross-linked polyethylene (XLPE)
Insulation thickness	Depending on the voltage level, the range is 2.5 mm ~ 8.0 mm	Shielding Materials	Copper tape shield, copper wire shield or copper foil shield
Sheath material	Polyvinyl chloride (PVC), polyethylene (PE) or halogen- free low smoke material (LSZH)	Sheath thickness	1.5 mm ~ 3.5 mm
Number of cores	-15°C ~ +70°C	Cable cross section range	0.5 mm <sup>2</sup> ~ 240 mm <sup>2</sup> (suitable for different current requirements)
Combustion performance	Single core, three core	Operating temperature	-20°C ~ +90°C
Short circuit temperature	Maximum 250°C, duration not exceeding 5 seconds	Laying method	Underground laying, pipeline laying, overhead laying
Fire resistance	Comply with GB/T 19666 and other relevant standards	Cable cross section range	25 mm <sup>2</sup> ~ 1000 mm <sup>2</sup>
Electrical properties	Dielectric strength and insulation resistance comply with GB/T 12706 and other standards		

## Features

### High electrical performance

- High-purity conductors, reduced power loss.
- Stable, voltage-resistant insulation.

### Safe and reliable

- Flame retardant, fire-resistant.
- Copper shielding, stable transmission.

### Strong durability

- Resistant to extreme environments.
- Anti-aging sheath, longer lifespan.

### Flexibility and ease of construction

- Anti-aging sheath, longer lifespan.

The cable should be packed in a wooden or steel reel to prevent moisture and shock.  
Avoid moisture, pressure or damage during transportation and ensure it is firmly fixed.  
Store in a dry and ventilated environment with a temperature of 5°C to 30°C and a humidity of less than 85%.

