

Overhead Power Transmission Cable

Stranded aluminum and steel-cored aluminum wire designed for overhead power transmission. Specifications and performance adhere to industry standards, detailing dimensions, resistance, tensile strength, and weight.

铝绞线及钢芯铝绞线

本产品符合GB/T 17895-2017标准。

产品执行标准

产品型号及名称：见表格 10-1

表 10-1 铝绞线及钢芯铝绞线的主要性能

型号	标称截面积 (mm²)	标称直径 (mm)	重量 (kg/km)	直流电阻 (Ω/km)	计算拉断力 (N)	重量 (kg/km)
16	16	5.1	43.5	1.802	2480	43.5
50	50	9	135.5	0.5786	7930	135.5
120	120	14.25	333.5	0.2373	19420	333.5
300	300	22.4	820.4	0.09689	46850	820.4
800	800	36.9	2225	0.03588	115900	2225

产品的规格、结构及性能见 表格 10-2 至 10-3

表 10-2 铝绞线的规格、结构及性能

型号	标称截面积 (mm²)	标称直径 (mm)	重量 (kg/km)	直流电阻 (Ω/km)	计算拉断力 (N)	重量 (kg/km)
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Product Overview

High-Performance Overhead Transmission Solutions

These overhead power transmission cables are designed for efficient energy delivery across aerial power lines. Available in both aluminum stranded (JL) and steel-core aluminum stranded (JL/G) configurations, they offer a versatile solution for various structural and environmental requirements. The range includes specialized anti-corrosion models to ensure long-term reliability in challenging atmospheric conditions.

Application

Suitable for overhead power lines for the transmission of electrical energy.

Technical Classifications

Available Types

Model Type	Description
JL (LJ)	Aluminum stranded wire
JL/G1A, JL/G1B, JL/G2A, JL/G2B, JL/G3A (LGJ)	Steel-core aluminum stranded wire
JL/G1AF, JL/G2AF, JL/G3AF (LGJF)	Anti-corrosion steel-core aluminum stranded wire

Physical Properties

Nominal Cross-Sectional Area Range

16 mm², 25 mm², 35 mm², 50 mm², 70 mm², 95 mm², 120 mm², 150 mm², 185 mm², 210 mm², 240 mm², 300 mm², 400 mm², 500 mm², 630 mm², 800 mm²

Technical Specifications

Aluminum Stranded Wire Performance Data

Nominal Area (mm²)	Stranding (No./Dia. mm)	Outer Diameter (mm)	Max DC Resistance (Ω/km)	Calculated Tensile Force (N)	Weight (kg/km)
16	16/1.70	5.1	1.802	2480	43.5
50	7/3.00	9	0.5786	7930	135.5
120	19/2.85	14.25	0.2373	19420	333.5
300	37/3.20	22.4	0.09689	46850	820.4
800	61/4.10	36.9	0.03588	115900	2225

Maximum Calculated Tensile Force

115900 N

Max Tensile Force

Logistics

Standard Delivery Lengths

- 4000m (for 16mm²)
- 1500m (for 50mm²)
- 1000m (standard for 95mm² - 500mm²)
- 800m (for 630mm² - 800mm²)