

Aerial Insulated Cable (Single Core) - 10kV GB/T 14049

Overhead cable for aerial distribution and service connection

Aerial Insulated Cable (Single Core) - 10kV GB/T 14049 is prepared for preliminary product selection and quotation review. This product is used for overhead distribution routes where conductor arrangement, insulation, messenger or neutral support and installation environment determine cable selection.



VOLTAGE

10kV, 11kV

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Aerial bundled cable systems

STANDARDS

GB/T 14049

DATA SCOPE

2 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm voltage, conductor, core arrangement, messenger/neutral and installation span.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- Aerial bundled cable systems
- overhead service drops
- rural and urban distribution networks
- utility line upgrade projects.

Selection logic

- Confirm voltage grade, conductor material, core arrangement, messenger/neutral requirement, installation span and applicable utility standard.

Construction Overview

Item	Website-ready content
Product route	Aluminum or copper conductor with insulation and optional messenger or bundled arrangement according to product type.
Voltage	10kV, 11kV
Conductor	Confirmed by product standard and project requirement
Standards	GB/T 14049
Confirmation	Final structure, dimensions and packing should follow selected standard, quotation review and order specification.

Readable Data Index

Data route	Size / rating range	Construction	Diameter / OD	Resistance / weight / rating
GB/T 14049 (JKLYJ) - 10kV Compacted AAC Conductor / XLPE I	25 - 240	7 / 2.14 - 37 / 2.87	13.5 - 27.0	150 - 840
GB/T 14049 (JKLGYJ) - 10kV ACSR Conductor / XLPE Insulated	25/4 - 240/40	6/1 x 2.32 - 26/7 x 3.45/2.68	14.0 - 29.5	200 - 1275

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

GB/T 14049 (JKLYJ) - 10kV Compacted AAC Conductor / XLPE Insulated

Reference table for preliminary selection and quotation review.

Nominal Area (mm²)	Conductor Structure (No./mm)	Nominal Insul. Thick. (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Calculated Pulling Tension (kN)
GB/T 14049 (JKLYJ) - 10kV Compacted AAC Conductor / XLPE Insulated					
25	7 / 2.14	3.4	13.5	150	3.6
35	7 / 2.52	3.4	14.5	185	5.1
50	7 / 3.02	3.4	16.0	230	7.3
70	19 / 2.17	3.4	18.0	305	10.4
95	19 / 2.52	3.4	19.5	380	14.0
120	19 / 2.83	3.4	21.0	465	18.0
150	37 / 2.27	3.4	22.5	560	22.6
185	37 / 2.52	3.4	24.5	665	28.0
240	37 / 2.87	3.4	27.0	840	36.4

GB/T 14049 (JKLGYJ) - 10kV ACSR Conductor / XLPE Insulated (For Long Spans)

Reference table for preliminary selection and quotation review.

Nominal Area (mm²)	Conductor Structure (Al/St)	Nominal Insul. Thick. (mm)	Approx. Overall Dia. (mm)	Approx. Weight (kg/km)	Calculated Pulling Tension (kN)
GB/T 14049 (JKLGYJ) - 10kV ACSR Conductor / XLPE Insulated (For Long Spans)					
25/4	6/1 x 2.32	3.4	14.0	200	9.1
35/6	6/1 x 2.70	3.4	15.5	250	12.6
50/8	6/1 x 3.20	3.4	17.0	325	17.5
70/11	6/1 x 3.80	3.4	19.0	425	24.6
95/15	26/7 x 2.15/1.67	3.4	21.5	580	36.2
120/20	26/7 x 2.44/1.90	3.4	23.5	705	46.2
150/25	26/7 x 2.70/2.10	3.4	25.0	840	55.8
185/30	26/7 x 3.00/2.33	3.4	27.0	1015	69.5
240/40	26/7 x 3.45/2.68	3.4	29.5	1275	89.6