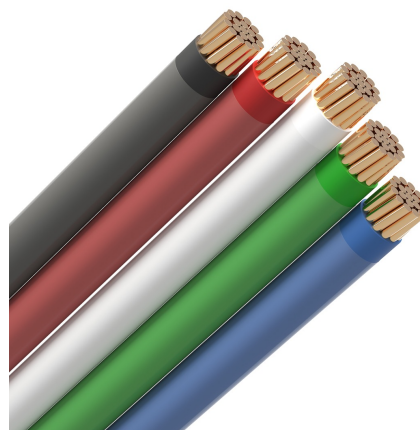


Copper Building Wire

Building wire for electrical systems and service entrance wiring

Copper Building Wire is prepared for preliminary product selection and quotation review. This product is used for building electrical systems where conductor material, insulation rating, flame performance and local wiring rules determine product selection.



VOLTAGE

300/500V, 600V, 450/750V

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Residential and commercial wiring

STANDARDS

UL 83; UL 44; IEC 60227; BS 6004; additional project standards

DATA SCOPE

1 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm conductor, insulation type, voltage rating, size and local wiring rule.

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

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Application & Selection Summary

Typical applications

- Residential and commercial wiring
- panel feeders
- branch circuits
- service entrance wiring
- conduit, tray or building electrical installation routes.

Selection logic

- Confirm conductor material, voltage rating, insulation type, installation method and applicable UL, IEC or local wiring standard before selection.

Construction Overview

Item	Website-ready content
Product route	Copper or aluminum conductor with thermoplastic or cross-linked insulation according to the selected building wire type and standard.
Voltage	300/500V, 600V, 450/750V
Conductor	Confirmed by product standard and project requirement
Standards	UL 83; UL 44; IEC 60227; BS 6004; GB/T 5023; IEC 60332; UL 1581
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
Copper Building Wire Performance Chart	14 AWG - 4/0 AWG	See table	See table	18 - 230

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.

Copper Building Wire Performance Chart

Reference table for preliminary selection and quotation review.

Gauge / Size	UL Type THHN (Amps @ 90°C)	UL Type XHHW-2 (Amps @ 90°C)	IEC Type (Approx. mm²)	IEC Rated Amps (Ref)
Copper Building Wire Performance Chart				
14 AWG	15	15	2.08 mm²	18
12 AWG	20	20	3.31 mm²	25
10 AWG	30	30	5.26 mm²	35
8 AWG	55	55	8.37 mm²	45
6 AWG	75	75	13.3 mm²	65
4 AWG	95	95	21.2 mm²	85
2 AWG	130	130	33.6 mm²	115
1/0 AWG	170	170	53.5 mm²	150
4/0 AWG	260	260	107 mm²	230