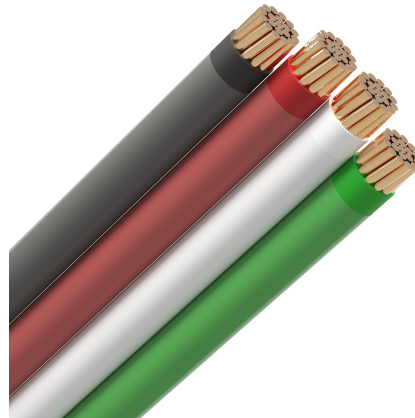


# Branch Circuit Building Wire

Building wire for electrical systems and service entrance wiring

Branch Circuit 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

600V, 450/750V

## CONDUCTOR

Aluminum alloy AA-8000  
conductor route, confirmed  
by technical table

## TYPICAL USE

Residential and commercial  
wiring

## STANDARDS

UL 83; UL 44; IEC 60227

## 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       | 600V, 450/750V                                                                                                                        |
| Conductor     | Aluminum alloy AA-8000 conductor route, confirmed by technical table                                                                  |
| Standards     | UL 83; UL 44; IEC 60227                                                                                                               |
| 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 |
|--------------------------------------------------|---------------------|--------------|---------------|------------------------------|
| Stranded Copper Branch Wire - 600V (THHN/THWN-2) | 14 AWG - 10 AWG     | See table    | See table     | See table                    |

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.

## Stranded Copper Branch Wire - 600V (THHN/THWN-2)

Reference table for preliminary selection and quotation review.

| Size (AWG)                                       | Conductor Type   | PVC Thick. (mils/mm) | Nylon Thick. (mils/mm) | Approx. OD (mils/mm) | Allowable Ampacity @ 90°C (Amps) |
|--------------------------------------------------|------------------|----------------------|------------------------|----------------------|----------------------------------|
| Stranded Copper Branch Wire - 600V (THHN/THWN-2) |                  |                      |                        |                      |                                  |
| 14 AWG                                           | Class B Stranded | 15 / 0.38            | 4 / 0.10               | 109 / 2.77           | 15                               |
| 12 AWG                                           | Class B Stranded | 15 / 0.38            | 4 / 0.10               | 128 / 3.25           | 20                               |
| 10 AWG                                           | Class B Stranded | 20 / 0.51            | 4 / 0.10               | 161 / 4.09           | 30                               |
| Solid Copper Branch Wire - 600V (THHN/THWN-2)    |                  |                      |                        |                      |                                  |
| 14 AWG                                           | Class 1 Solid    | 15 / 0.38            | 4 / 0.10               | 102 / 2.59           | 15                               |
| 12 AWG                                           | Class 1 Solid    | 15 / 0.38            | 4 / 0.10               | 121 / 3.07           | 20                               |
| 10 AWG                                           | Class 1 Solid    | 20 / 0.51            | 4 / 0.10               | 153 / 3.89           | 30                               |