

THHN / THWN-2 UL 1685

Building wire for electrical systems and service entrance wiring

THHN / THWN-2 UL 1685 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

CONDUCTOR

Confirmed by product standard and project requirement

TYPICAL USE

Residential and commercial wiring

STANDARDS

UL 1685; UL 83

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.

ethan@farwalkcable.com | +86 155 5800 6344

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
Conductor	Confirmed by product standard and project requirement
Standards	UL 1685; UL 83
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
Tray Rated Stranded Copper THHN - UL 1685	1/0 AWG - 1000 kcmil	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.

Tray Rated Stranded Copper THHN - UL 1685

Reference table for preliminary selection and quotation review.

Size (AWG / kcmil)	No. of Strands	PVC Thick. (mils/mm)	Nylon Thick. (mils/mm)	Approx. OD (mils/mm)	Allowable Ampacity @ 90°C (Amps)
Tray Rated Stranded Copper THHN - UL 1685					
1/0 AWG	19	50 / 1.27	7 / 0.18	474 / 12.0	170
2/0 AWG	19	50 / 1.27	7 / 0.18	518 / 13.2	195
3/0 AWG	19	50 / 1.27	7 / 0.18	568 / 14.4	225
4/0 AWG	19	50 / 1.27	7 / 0.18	624 / 15.9	260
250 kcmil	37	60 / 1.52	8 / 0.20	705 / 17.9	290
350 kcmil	37	60 / 1.52	8 / 0.20	809 / 20.6	350
500 kcmil	37	60 / 1.52	9 / 0.23	941 / 23.9	430
750 kcmil	61	70 / 1.78	9 / 0.23	1152 / 29.3	535
1000 kcmil	61	70 / 1.78	9 / 0.23	1303 / 33.1	615