

SAMPLE — Garage renovation

Customer: Example customer

2 selected calculations | Exported Sep 24, 2026

JOB NOTES

This is a sample report with example values. It shows the layout of a Wireman Pro job report: saved inputs, the worked calculation, the NEC reference and your notes.

1. Subpanel feeder

Wire Size

Saved Sep 24, 2026

Result: 8 AWG

INPUTS AND CALCULATION DETAILS

Inputs:

Load / breaker: 40 A

Conductor: Copper (Cu)

Insulation temp rating: 75°C

Termination / cable limit: 60°C

Ambient temp: 30°C

conductors: 3

Minimum conductor: 8 AWG

Derated 40 A $\geq$ 40 A load

Base ampacity: 50 A

Temp correction: $\times 1$

Conductor adj.: $\times 1$

Work:

50 A $\times$ 1 (temp) $\times$ 1 (bundling); capped by 60°C terminals = 40 A

Reference: NEC 2023 Table 310.16 · 310.15(B)–(C) · 110.14(C) · 240.4(D)

RECORD NOTES

Example: 40 A feeder to a detached-garage subpanel.

2. Subpanel feeder run

Voltage Drop

Saved Sep 24, 2026

Result: 1.97 %

INPUTS AND CALCULATION DETAILS

Inputs:

Conductor size: 6 AWG

Material: Copper (Cu)

Phase: 1-phase

Current: 40 A

One-way length: 120 ft

System voltage: 240 V

Voltage drop: 1.97 %

Within 3% drop target — check ampacity separately

Drop: 4.72 V

Voltage at load: 235.3 V

Work:

$$VD = (2 \times 12.9 \times 40 \text{ A} \times 120 \text{ ft}) \div 26240 \text{ cmil} = 4.72 \text{ V}$$

$$4.72 \text{ V} \div 240 \text{ V} = 1.97\%$$

Reference: NEC 2023 Ch. 9, Table 8 · 210.19/215.2 Note (3% rec.)

RECORD NOTES

Example: 120 ft run from the main panel.

VERIFY BEFORE INSTALLATION

Saved calculation results are reproduced as recorded, not recalculated or certified by this report. Verify all inputs, assumptions, your adopted NEC edition, local amendments, and site conditions before installation.