Wire nut size & combination chart

Published ranges and exact combinations printed on Zone packaging

Orange · P3	Blue · P2	Red · P6	— · R3	Yellow · P11V	Green · P99	Tan · P12C	Red · P13	— · R6
Standard	Compact, low profile	Standard	Waterproof, silicone-filled	Winged	Grounding	Winged	Winged	Waterproof, silicone-filled
22–14 AWG	**22–14 AWG**	**22–10 AWG**	**20–10 AWG**	**18–10 AWG**	**14–10 AWG**	**22–8 AWG**	**22–8 AWG**	**20–8 AWG**
UL 486C	UL 486C	UL 486C	UL 486G	UL 486C	UL 467	UL 486C	UL 486C	UL 486G

Choose by the exact model and package chart, not colour alone. "w/" means "with"; Sol = solid; Str = stranded. Turn off power and follow the package instructions and local code.

Tan P12C · Solid and/or stranded

- 1 to 3 #10
- 1 to 4 #12
- 1 to 5 #14
- 2 to 6 #20, #18 or #16
- 3 to 6 #22
- 1 #10 w/1 #8
- 1 #12 w/1 or 2 #10
- 1 #12 w/1 #8
- 2 #12 w/1 #10
- 1 #14 w/1 or 2 #12 w/1 #10
- 1 #14 w/1 to 3 #12
- 1 #14 w/1 or 2 #10
- 2 #14 w/1 #12 w/1 #10
- 2 #14 w/1 or 2 #12
- 2 #14 w/1 or 2 #10
- 2 #14 w/1 #8
- 3 #14 w/1 #12 or #10
- 3 #14 w/2 #12
- 4 #14 w/1 #12 or #10
- 1 #16 w/1 or 2 #14 w/1 #12
- 1 #16 w/1 or 2 #14 w/1 #10
- 1 #16 w/1 to 4 #14 or #12
- 1 #16 w/1 or 2 #10
- 1 #16 w/1 #12 w/1 #10
- 2 #16 w/1 #14 w/1 or 2 #12
- 2 #16 w/2 #14 w/1 #12
- 2 #16 w/1 #12 w/1 #10
- 3 #16 w/1 #14 w/1 #12 or #10
- 4 #16 w/1 #12 w/1 #10
- 2 #16 w/1 to 4 #14
- 2 #16 w/1 to 3 #12
- 2 #16 w/1 or 2 #10
- 3 #16 w/1 to 3 #14
- 3 #16 w/1 or 2 #12 or #10
- 4 #16 w/1 or 2 #14 or #12
- 4 #16 w/1 #10
- 5 #16 w/1 #14
- 5 #16 w/1 #10
- 1 #18 w/1 to 4 #16, #14 or #12
- 1 #18 w/1 or 2 #10
- 2 #18 w/1 to 4 #16 or #14
- 2 #18 w/1 or 2 #10
- 3 #18 w/1 to 3 #16, #14 or #12
- 3 #18 w/1 or 2 #10
- 4 #18 w/1 or 2 #16, #14 or #12
- 4 #18 w/1 #10
- 5 #18 w/1 #16 or #14
- 1 #20 w/1 to 4 #18, #16 or #14
- 2 #20 w/1 to 3 #18, #16 or #14
- 3 #20 w/1 or 2 #18, #16 or #14
- 4 #20 w/1 or 2 #18, #16 or #14
- 1 #22 w/1 to 5 #20, #18 or #16
- 2 #22 w/1 to 4 #20, #18 or #16
- 3 #22 w/1 to 3 #20, #18 or #16
- 4 #22 w/1 or 2 #20, #18 or #16
- 1 #22 w/1 #20 w/1 or 2 #16
- 1 #22 w/1 #18 w/1 #16

Red P13 · Solid and/or stranded

- 1 #6
- 1 or 2 #8
- 1 to 4 #10
- 1 to 5 #12
- 1 to 6 #14 or #16
- 2 to 6 #18
- 3 to 6 #20
- 4 to 6 #22
- 1 #6 w/1 #10
- 1 #6 w/1 #10 w/1 #14
- 1 #6 w/1 or 2 #12
- 1 #6 w/1 #12 w/1 or 2 #14
- 1 #6 w/2 #12 w/1 #18
- 1 #6 w/2 #14 w/1 or 2 #16
- 1 #8 w/1 or 2 #10
- 1 #8 w/1 #10 w/1 or 2 #12 or #14
- 1 #8 w/2 #10 w/1 #14
- 1 #8 w/1 to 3 #12
- 1 #8 w/2 #12 w/1 or 2 #14
- 1 #8 w/1 to 4 #14
- 1 #8 w/1 to 5 #16
- 1 #10 w/1 to 4 #12
- 1 #10 w/1 #12 w/1 to 4 #14, #16 or #18
- 1 #10 w/2 #12 w/1 or 2 #14
- 1 #10 w/2 #12 w/1 to 3 #16 or #18
- 1 #10 w/3 #12 w/1 #14
- 1 #10 w/1 to 5 #14, #16 or #18
- 1 #10 w/1 #14 w/1 to 4 #16 or #18
- 1 #10 w/2 #14 w/1 to 3 #16
- 1 #10 w/1 #16 w/1 to 4 #18
- 2 #10 w/1 #12 w/1 to 3 #16
- 2 #10 w/1 to 3 #12 or #14
- 2 #10 w/2 #12 w/1 #14
- 2 #10 w/2 #12 w/1 or 2 #16 or #18
- 2 #10 w/1 to 4 #16 or #18
- 2 #10 w/2 #14 w/1 or 2 #16
- 2 #10 w/1 #16 w/1 to 3 #18
- 3 #10 w/1 #12
- 3 #10 w/1 #12 w/1 #16 or #18
- 3 #10 w/1 or 2 #14
- 3 #10 w/1 #14 w/1 #16
- 3 #10 w/1 #14 w/1 or 2 #18
- 3 #10 w/1 to 3 #16 or #18
- 3 #10 w/1 #16 w/1 or 2 #18
- 1 #12 w/1 to 5 #14, #16 or #18
- 1 #12 w/1 #14 w/1 to 3 #18
- 1 #12 w/1 #16 w/1 to 3 #18
- 1 or 2 #12 w/1 #14 w/1 to 3 #16
- 1 or 2 #12 w/2 #14 w/1 or 2 #16
- 2 #12 w/1 to 4 #14, #16 or #18
- 2 #12 w/1 #14 or #16 w/1 to 3 #18
- 3 #12 w/1 to 3 #14, #16 or #18
- 3 #12 w/1 #14 w/1 or 2 #16 or #18
- 3 #12 w/2 #14 w/1 #16
- 3 #12 w/1 #16 w/1 or 2 #18
- 4 #12 w/1 #14
- 4 #12 w/1 #14 w/1 #16 or #18
- 4 #12 w/1 or 2 #16
- 4 #12 w/1 #16 w/1 #18
- 1 #14 w/1 to 5 #16 or #18
- 1 #14 w/1 #16 w/1 to 3 #18
- 1 #14 w/1 to 5 #20 or #22
- 2 #14 w/1 to 4 #16, #18, #20 or #22
- 2 #14 w/1 #16 w/1 to 3 #18
- 3 #14 w/1 to 3 #16, #18, #20 or #22
- 3 #14 w/1 #16 w/1 or 2 #18
- 4 #14 w/1 or 2 #16, #18, #20 or #22
- 4 #14 w/1 #16 w/1 #18
- 5 #14 w/1 #16 or #18
- 1 #16 w/1 to 5 #18, #20 or #22
- 1 #16 w/1 #18 w/1 to 3 #20 or #22
- 1 or 2 #16 w/1 #20 w/1 or 2 #22
- 1 #16 w/2 #20 w/1 or 2 #22
- 2 #16 w/1 to 4 #18, #20 or #22
- 2 #16 w/1 #18 w/1 to 3 #20 or #22
- 2 #16 w/2 #20 w/1 or 2 #22
- 3 #16 w/1 to 3 #18, #20 or #22
- 3 #16 w/1 #18 w/1 or 2 #20 or #22
- 3 #16 w/1 #20 w/1 or 2 #22
- 4 #16 w/1 or 2 #18, #20 or #22
- 4 #16 w/1 #18 w/1 #20 or #22
- 4 #16 w/1 #20 w/1 #22
- 5 #16 w/1 #18, #20 or #22
- 1 #18 w/1 to 5 #20 or #22
- 1 to 3 #18 w/1 #20 w/1 or 2 #22
- 1 to 3 #18 w/2 #20 w/1 #22
- 2 #18 w/1 to 4 #20 or #22
- 3 #18 w/1 to 3 #20 or #22
- 4 #18 w/1 or 2 #20 or #22
- 5 #18 w/1 #20 or #22
- 1 #20 w/2 to 5 #22
- 2 #20 w/1 to 4 #22
- 3 #20 w/1 to 3 #22
- 4 #20 w/1 or 2 #22
- 5 #20 w/1 #22

Red P6 · Solid and/or stranded

600 V max

- 2 #10 Sol
- 2 to 4 #12
- 2 to 6 #14
- 3 to 9 #18
- 1 #10 Sol w/1 #10 Str
- 1 #10 w/1 to 3 #12 or #14
- 2 #10 w/1 to 3 #16 or #18
- 2 #10 Sol w/2 #12 Sol
- 2 #10 Sol w/2 #12 Str
- 2 #10 w/1 or 2 #14
- 1 #12 w/1 to 5 #14
- 1 #12 w/1 to 4 #16 or #18
- 1 #12 w/1 #20
- 2 #12 w/1 to 4 #14
- 2 #12 w/1 to 3 #16 or #18
- 3 #12 w/1 or 2 #16 or #18
- 3 #12 w/2 or 3 #14
- 4 #12 w/1 #14, #16 or #18
- 2 #14 w/1 to 4 #16 or #18
- 3 #14 w/1 to 3 #16 or #18
- 4 #14 w/1 or 2 #16
- 4 #14 w/1 to 3 #18
- 5 #14 w/1 #16 or #18

300 V max

- 1 #10
- 2 #10 Str
- 4 to 6 #16
- 1 #10 w/1 #12 w/3 or 4 #18
- 1 #10 w/1 #14 w/4 #18
- 1 #10 w/1 #14 w/1 to 4 #20
- 1 #10 w/1 #14 w/1 to 4 #22
- 1 #10 w/1 or 2 #20 w/1 to 4 #22
- 1 #12 w/2 #14 w/3 #16
- 1 #12 w/1 #16 w/1 to 4 #20
- 1 #12 w/1 #16 w/1 to 4 #22
- 1 #12 w/1 to 4 #20
- 2 #12 w/1 #14 w/2 or 3 #16
- 2 #12 w/2 #14 w/1 #16
- 2 #12 w/1 #16 w/4 #18
- 2 #12 w/6 #16
- 3 #12 w/1 #14
- 3 #12 w/1 #16 w/1 #20
- 3 #12 w/3 #18
- 1 #14 w/1 #18 w/4 #22
- 2 #14 w/1 #16 w/1 to 4 #20
- 2 #14 w/1 #16 w/1 to 4 #22
- 3 #14 w/1 #16 w/1 to 3 #18
- 1 #16 w/4 #18
- 2 #16 w/3 or 4 #18
- 3 #16 w/1 or 2 #20 w/1 to 3 #22
- 4 #16 w/1 #18 or #20
- 4, 5 or 6 #16 w/1 #22
- 4 or 5 #16 w/2 #22

Blue P2 · Solid and/or stranded

- 1 #14
- 1 to 3 #16
- 1 to 4 #18
- 3 to 5 #20
- 2 #22
- 1 #14 w/1 #16
- 1 #14 w/1 or 2 #18
- 1 #14 w/1 to 3 #20 or #22
- 1 #16 w/1 to 3 #18
- 1 #16 w/1 #18 w/1 #20
- 1 #16 w/1 to 4 #20 or #22
- 1 #16 w/1 #22 w/1 #18 or #20
- 2 #16 w/1 #18
- 2 #16 w/1 or 2 #20
- 2 #16 w/1 #20 w/1 #22
- 2 #16 w/1 to 3 #22
- 1 #18 w/1 to 4 #20 or #22
- 1 or 2 #18 w/1 #20 w/1 #22
- 2 #18 w/1 to 3 #20 or #22
- 3 #18 w/1 or 2 #20 or #22
- 4 #18 w/1 #22
- 3 #20 w/1 or 2 #22
- 4 #20 w/1 #22

— R3 · Solid and/or stranded

- 1 to 3 #12
- 2 to 3 #14
- 2 to 4 #16
- 2 to 4 #18
- 2 #20
- 1 #10 w/1 #12
- 1 #10 w/1 #12 w/1 #18
- 1 #10 w/1 or 2 #14
- 1 #10 w/1 #14 w/1 #16
- 1 #10 w/1 #14 w/1 or 2 #18
- 1 #10 w/1 #14 w/1 to 3 #20
- 1 #10 w/1 to 3 #16
- 1 #10 w/1 or 2 #18
- 1 #12 w/1 or 2 #14
- 1 #12 w/1 #14 w/1 to 3 #16
- 1 #12 w/1 #14 w/1 to 3 #18
- 1 #12 w/1 #14 w/1 to 4 #20
- 1 #12 w/2 #14 w/1 #16
- 1 #12 w/1 #16 w/1 to 4 #18
- 1 #12 w/1 #16 w/1 to 4 #20
- 1 #12 w/2 or 3 #16
- 1 #12 w/3 or 4 #18
- 2 #12 w/1 #14
- 2 #12 w/1 #14 w/1 #18
- 2 #12 w/1 #14 w/1 or 2 #20
- 2 #12 w/1 #16
- 2 #12 w/1 #16 w/1 or 2 #18
- 2 #12 w/1 #16 w/1 to 3 #20
- 2 #12 w/1 or 2 #18
- 1 #14 w/1 to 3 #16
- 1 #14 w/1 #16 w/1 to 3 #18
- 1 #14 w/1 #16 w/1 to 4 #20
- 1 #14 w/1 to 4 #18
- 2 #14 w/1 or 2 #16
- 2 #14 w/1 #16 w/1 to 3 #18
- 2 #14 w/1 #16 w/1 to 3 #20
- 2 #14 w/1 #18 w/1 to 3 #20
- 3 #14 w/1 #16 w/1 or 2 #18
- 3 #14 w/1 #16 w/1 or 2 #20
- 3 #14 w/1 #18 w/1 or 2 #20
- 1 #18 w/1 to 3 #14
- 1 #18 w/1 to 3 #16
- 2 #18 w/1 or 2 #14
- 2 #18 w/1 to 3 #16

Yellow P11V · Solid and/or stranded

- 1 #10
- 1 to 3 #12
- 2 or 3 #14
- 2 to 4 #16
- 2 to 4 #18
- 1 #10 w/1 #12
- 1 #10 w/1 or 2 #14
- 1 #10 w/1 or 2 #16
- 1 #10 w/1 to 3 #18
- 1 #12 w/1 or 2 #14
- 1 #12 w/1 to 3 #16
- 1 #12 w/1 to 4 #18
- 1 #12 Sol w/5 #18 Sol
- 2 #12 w/1 or 2 #18
- 2 #12 w/1 #14
- 2 #12 w/1 #16
- 1 #14 w/1 to 4 #16
- 1 #14 w/1 to 5 #18
- 2 #14 w/1 to 3 #16
- 2 #14 w/1 to 3 #18
- 3 #14 w/1 #16
- 3 #14 w/1 or 2 #18
- 1 #16 w/1 to 5 #18
- 2 #16 w/1 to 4 #18
- 3 #16 w/1 to 3 #18
- 4 #16 w/1 or 2 #18

Orange P3 · Solid and/or stranded

600 V max

- 1 or 2 #14
- 2 or 3 #16
- 2 to 4 #18
- 1 #14 w/1 #16
- 1 #14 w/1 #16 w/1 #18
- 1 #14 w/1 or 2 #18
- 1 #14 w/1 to 3 #20 or #22
- 1 #16 w/1 or 2 #18
- 1 #16 w/1 #18 w/1 #22
- 1 #16 w/1 to 3 #20 or #22
- 1 or 2 #16 w/1 #20 w/1 #22
- 2 #16 w/1 #18
- 2 #16 w/1 or 2 #20
- 2 #16 w/1 to 3 #22
- 1 #18 w/2 to 4 #20
- 1 #18 w/3 or 4 #22
- 1 or 2 #18 w/1 #20 w/1 #22
- 2 #18 w/1 or 2 #20 or #22
- 3 #18 w/1 #20 or #22

300 V max

- 4 #16
- 5 #18
- 3 to 5 #20
- 5 #22 Sol
- 5 #22 Str
- 3 #22 Sol w/2 #22 Str
- 1 #14 w/1 #16 w/1 #18
- 1 #14 w/2 #16
- 1 #14 w/3 #18
- 1 #14 w/4 #20
- 2 #14 w/1 #18
- 2 #14 w/1 to 3 #20 or #22
- 1 #16 w/4 #18
- 2 #16 w/2 or 3 #18
- 2 #16 w/3 #20
- 3 #16 w/1 #18
- 3 #16 w/1 or 2 #20 or #22
- 4 #16 w/1 #20 or #22
- 1 #18 w/1 #20
- 1 #18 w/5 #22
- 2 #18 w/3 #22
- 3 #18 w/2 #20 or #22
- 4 #18 w/1 #20 or #22
- 1 #20 w/4 #22
- 2 #20 w/2 or 3 #22
- 3 #20 w/1 or 2 #22
- 4 #20 w/1 #22

Green P99 · Solid copper · Grounding wires only

- 2 to 5 #12
- 2 to 4 #14
- 1 #10 w/1 or 2 #12
- 1 #10 w/1 to 3 #14
- 1 #12 w/1 to 3 #14
- 2 #12 w/1 to 3 #14
- 3 #12 w/1 #14

— R6 · Solid and/or stranded

- 1 or 2 #8
- 2 to 4 #10
- 2 to 4 #12
- 2 to 5 #14
- 3 to 5 #16
- 1 #10 w/1 to 3 #12
- 1 #10 w/1 #12 w/1 or 2 #14
- 1 #10 w/1 #12 w/1 to 4 #16
- 1 #10 w/1 #12 w/2 to 4 #18
- 1 #10 w/1 to 3 #14
- 1 #10 w/1 #14 w/1 to 4 #16
- 1 #10 w/1 #14 w/2 to 4 #18
- 1 #10 w/1 #14 w/2 to 4 #20
- 1 #10 w/3 #16
- 1 #10 w/1 or 2 #18
- 2 #10 w/1 #12
- 2 #10 w/1 or 2 #14
- 1 #12 w/2 to 4 #16
- 1 #12 w/3 or 4 #18
- 1 #12 w/1 #14 w/1 to 4 #16
- 1 #12 w/1 #14 w/1 to 4 #18
- 1 #12 w/1 #14 w/1 to 4 #20
- 1 #12 w/2 #14 w/1 to 3 #16
- 1 #12 w/1 #16 w/1 to 4 #18
- 1 #12 w/1 #16 w/2 to 4 #20
- 2 #12 w/2 #14
- 2 #12 w/3 #16
- 2 #14 w/2 or 3 #16
- 2 #14 w/2 to 4 #18
- 3 #14 w/1 #12
- 3 #14 w/1 or 2 #16
- 2 #12 w/1 #14 w/1 to 3 #16
- 2 #12 w/1 #14 w/1 to 3 #18
- 2 #12 w/1 #14 w/1 to 3 #20
- 2 #12 w/2 #14 w/1 #16
- 2 #12 w/1 #16 w/1 to 3 #18
- 2 #12 w/1 #16 w/1 to 3 #20
- 1 #14 w/1 #16 w/1 to 3 #18
- 1 #14 w/1 #16 w/2 to 4 #20
- 2 #14 w/1 #16 w/1 to 3 #18
- 2 #14 w/1 #16 w/1 to 3 #20
- 2 #14 w/1 #18 w/1 to 3 #20
- 3 #14 w/1 #16 w/1 or 2 #18
- 3 #14 w/1 #16 w/1 or 2 #20
- 3 #14 w/1 #18 w/1 or 2 #20