NEC TABLE 314.16(A): METAL BOX FILL CAPACITIES

NEC 2023 COMPLIANT

BOX SIZE (IN)	MIN. VOL (IN^3)	18 AWG	16 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG
4 x 1-1/4 Round/Octagonal	12.5	8	7	6	5	5	4	2
4 x 1-1/2 Round/Octagonal	15.5	10	8	7	6	6	5	3
4 x 2-1/8 Round/Octagonal	21.5	14	12	10	9	8	7	4
4 x 1-1/4 Square	18.0	12	10	9	8	7	6	3
4 x 1-1/2 Square	21.0	14	12	10	9	8	7	4
4 x 2-1/8 Square	30.3	20	17	15	13	12	10	6
4-11/16 x 1-1/4 Square	25.5	17	14	12	11	10	8	5
4-11/16 x 1-1/2 Square	29.5	19	16	14	13	11	9	5
4-11/16 x 2-1/8 Square	42.0	28	24	21	18	16	14	8
3 x 2 x 1-1/2 Device	7.5	5	4	3	3	3	2	1
3 x 2 x 2 Device	10.0	6	5	5	4	4	3	2
3 x 2 x 2-1/4 Device	10.5	7	6	5	4	4	3	2

BOX SIZE (IN)	MIN. VOL (IN³)	18 AWG	16 AWG	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG
3 x 2 x 2-1/2 Device	12.5	8	7	6	5	5	4	2
3 x 2 x 2-3/4 Device	14.0	9	8	7	6	5	4	2
3 x 2 x 3-1/2 Device	18.0	12	10	9	8	7	6	3
4 x 2-1/8 x 1-1/2 Handy	10.3	6	5	5	4	4	3	2
4 x 2-1/8 x 1-7/8 Handy	13.0	8	7	6	5	5	4	2
4 x 2-1/8 x 2-1/8 Handy	14.5	9	8	7	6	5	4	2

ZING²

TECHNICAL REFERENCE DATA

PRO GRADE DOCUMENTATION

ONLINE ELECTRICAL TOOLS

https://zing2.app

VISIT ZING2.APP FOR FULL TABLE