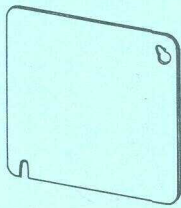
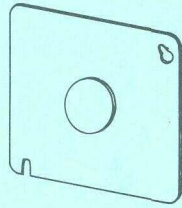




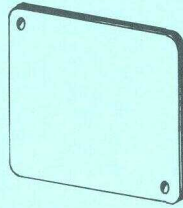
4" Square Covers (Cont.)



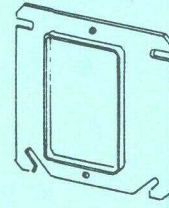
8465



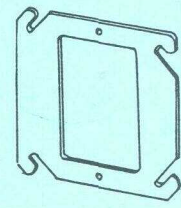
8474



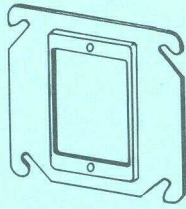
8465P
Plenum box Cover



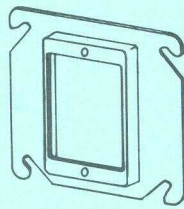
8468WB
1/4" Raised



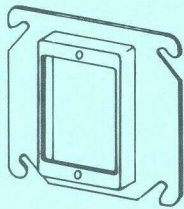
8468F



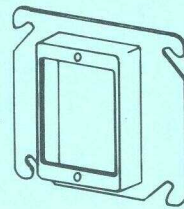
8468B
1/4" Raised



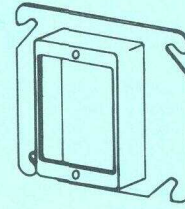
8468A
1/2" Raised



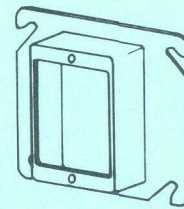
8468C
5/8" Raised



8468
3/4" Raised



8466A
1" Raised



8466
1 1/4" Raised

Flat Covers

Catalog No. Universal No.	Depth	Wiring Cu. In. Cap.	Description	Wt. Lbs. Per 100	Std. Pkg.
8465 52C1	Flat	...	Blank	32.0	50
8474 52C6	Flat	...	1/2" KO	32.0	50
8465P	Flat	...	Blank gasketed with two captive screws	35.0	50

Single Device

8468WB 52C36	1/4"	1.5	Single Device One Side Open	22.0	50
8468F 52C-0	Flat	0	Single Device Open Center	21.0	50
8468B 52C62	1/4"	2.0	Single Device Open Center	23.0	25
8468A 52C13	1/2"	3.5	Square Corners Drawn	28.0	25
8468C 52C14-5/8	5/8"	4.5	Square Corners Drawn	28.0	50
8468 52C14	3/4"	5.5	Square Corners Drawn	32.0	25
8466A 52C15	1"	7.5	Square Corners Drawn	36.0	25
8466 52C16	1 1/4"	9.5	Square Corners Drawn	40.0	25

Discount Schedule OB/SB-1

Refer to Pricing Index for Prices.



1701 W. Wellington Ave.
Chicago, Illinois 60657

Capacity of Steel Boxes & Covers

The number of conductors and devices allowed in a box is limited by the cubic-inch capacity of the box. Unless superseded by local codes, Section 370-16 of the 1993 National Electrical Code governs the number of wires permitted. Section 370-16 is reproduced below:

370-16. Number of Conductors in Outlet, Device, and Junction Boxes, and Conduit Bodies. Boxes shall be of sufficient size to provide free space for all conductors enclosed in the box.

The provisions of this section shall not apply to terminal housings supplied with motors. See Section 430-12.

Boxes and conduit bodies containing conductors, size No. 4 or larger, shall also comply with the provisions of Section 370-28.

(a) Standard Boxes. The maximum number of conductors permitted in standard boxes shall be as is listed in Table 370-16(a). See Section 370-28 where boxes or conduit bodies are used as junction or pull boxes.

(1) Table 370-16(a) shall apply where no fittings or devices, such as fixture studs, cable clamps, hickies, switches, or receptacles, are contained in the box and where no grounding conductors are part of the wiring within the box. Where one or more of these types of fittings, such as fixture studs, cable clamps, or hickies are contained in the box, the number of conductors shown in the table shall be reduced by one for each type of fitting; an additional deduction of two conductors shall be made for each mounting yoke strap containing one or more devices or equipment; and a further deduction of one conductor shall be made for one or more equipment grounding conductors entering the box. Where a second set of equipment grounding conductors, as permitted by Section 250-74, Exception No. 4, is present in the box, then an additional deduction of one conductor shall be made. A conductor running through the box shall be counted as one conductor, and each conductor originating outside of the box and terminating inside the box is counted as one conductor. Conductors, no part of which leaves the box, shall not be counted. The volume of a wiring enclosure (box) shall be the total volume of the assembled sections, and, where used, the space provided by plaster rings, domed covers, extension rings, etc., that are marked with their volume in cubic inches, or are made from boxes the dimensions of which are listed in Table 370-16(a).

(2) For combinations of conductor sizes shown in Table 370-16(a), the maximum number of conductors permitted shall be computed using the volume per conductor listed in Table 370-16(b), with the deductions provided for in Section 370-16(a)(1) and these volume deductions shall be based on the largest conductor entering the box. The maximum number and size of conductors listed in Table 370-16(a) shall not be exceeded.

(b) Other Boxes. Boxes 100 cubic inches or less other than those described in Table 370-16(a), nonmetallic boxes shall be durably and legibly marked by the manufacturer with their cubic inch capacity. The maximum number of conductors permitted shall be computed using the volume per conductor listed in Table 370-16(b), with the deductions provided for in Section 370-16(a)(1), and these volume deductions shall be based on the largest conductor entering the box. Boxes described in Table 370-16(a) that have a larger cubic inch capacity than is designated in the table shall be permitted to have their cubic inch capacity marked as required by this section and the maximum number of conductors permitted shall be computed using the volume per conductor listed in Table 370-16(b).

Table 370-16(a). Metal Boxes

Box Dimension, Inches Trade Size or Type	Min. Cu. In. Cap.	Maximum Number of Conductors							
		No. 18	No. 16	No. 14	No. 12	No. 10	No. 8	No. 6	
4 x 1 1/4 Round or Octagonal	12.5	8	7	6	5	5	4	0	
4 x 1 1/2 Round or Octagonal	15.5	10	8	7	6	6	5	0	
4 x 2 1/8 Round or Octagonal	21.5	14	12	10	9	8	7	0	
4 x 1 1/4 Square	18.0	12	10	9	8	7	6	0	
4 x 1 1/2 Square	21.0	14	12	10	9	8	7	0	
4 x 2 1/8 Square	30.3	20	17	15	13	12	10	6*	
4 1 1/16 x 1 1/4 Square	25.5	17	14	12	11	10	8	0	
4 1 1/16 x 1 1/2 Square	29.5	19	16	14	13	11	9	0	
4 1 1/16 x 2 1/8 Square	42.0	28	24	21	18	16	14	6	
3 x 2 x 1 1/2 Device	7.5	5	4	3	3	3	2	0	
3 x 2 x 2 Device	10.0	6	5	5	4	4	3	0	
3 x 2 x 2 1/4 Device	10.5	7	6	5	4	4	3	0	
3 x 2 x 2 1/2 Device	12.5	8	7	6	5	5	4	0	
3 x 2 x 2 3/4 Device	14.0	9	8	7	6	5	4	0	
3 x 2 x 3 1/2 Device	18.0	12	10	9	8	7	6	0	
4 x 2 1/8 x 1 1/2 Device	10.3	6	5	5	4	4	3	0	
4 x 2 1/8 x 1 1/4 Device	13.0	8	7	6	5	5	4	0	
4 x 2 1/8 x 2 1/8 Device	14.5	9	8	7	6	5	4	0	
3 3/4 x 2 x 2 1/2 Masonry Box/Gang	14.0	9	8	7	6	5	4	0	
3 3/4 x 2 x 3 1/2 Masonry Box/Gang	21.0	14	12	10	9	8	7	0	
FS—Minimum Internal Depth 1 3/4 Single Cover/Gang	13.5	9	7	6	6	5	4	0	
FD—Minimum Internal Depth 2 3/8 Single Cover/Gang	18.0	12	10	9	8	7	6	3	
FS—Minimum Internal Depth 1 3/4 Multiple Cover/Gang	18.0	12	10	9	8	7	6	0	
FD—Minimum Internal Depth 2 3/8 Multiple Cover/Gang	24.0	16	13	12	10	9	8	4	

*Not to be used as a pull box. For termination only.

Table 370-16(b). Volume Required per Conductor

Size of Conductor	Free Space Within Box for Each Conductor
No. 18	1.5 cubic inches
No. 16	1.75 cubic inches
No. 14	2.0 cubic inches
No. 12	2.25 cubic inches
No. 10	2.5 cubic inches
No. 8	3.0 cubic inches
No. 6	5.0 cubic inches

Reproduced with permission NFPA.



1701 W. Wellington Ave.
Chicago, Illinois 60657