

4 in. Octagonal Boxes

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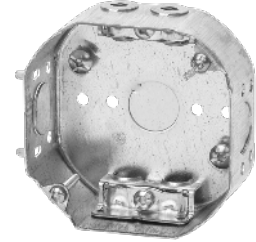
56111-CRT



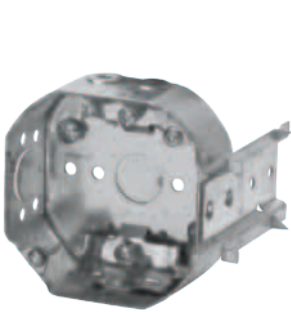
54151K-CRT



54151L-CRT



54151LA-CRT



54151LB-CRT



54151LD-CRT



54151LSSAX-RT



CI54171-KSSX



Cat. No.	Features					Conduit Knockouts		Packaging	
	Cubic Capacity	Usage	Bracket (See page A3)	Ground Screw		Max. Load	Sides		Bottom
1/2 IN. DEEP									
56111-CRT	5.0	KO		1	yes	50 lb.		4 x 1/2 in.	1 unit
56111-VP									
1-1/2 IN. DEEP									
54151K-CRT	15.0	KO		1	yes	50 lb.	2 x K + 2 x 1/2 in.	2 x K + 2 x 1/2 in.	1 unit
54151K-VP									
54151L-CRT		L		2		50 lb.	2 x 1/2 in.	1 x 1/2 in. KO and 8 pryouts	1 unit
54151L-EP30									
54151-L-VP		L / LA		2		12 lb.	1 x 1/2 in.		4 units
54151LA-CRT									
54151LB-CRT		L	B	2		35 lb.	2 x K + 2 x 1/2 in.	2 x K + 2 x 1/2 in. and 8 pryouts	1 unit
54151LD-CRT			D						
CI54151-LF		L / LA		2		50 lb.	2 x K + 2 x 1/2 in.	1 x 1/2 in. KO and 8 pryouts	
54151LSSAX-RT									SSX
CI54151-KSSX	KO	SSX	1	yes	50 lb.	2 x K	2 x K + 2 x 1/2 in.		

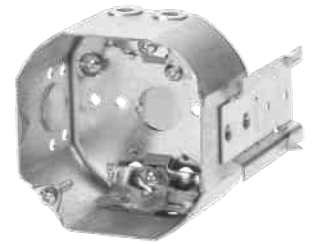
Usage: K: Conduit KOs only, L = NMD90 (Loomex, nonmetallic sheathed cable), LA = AC90 (BX, armoured cable) Conduit knockouts: K = concentric 1/2 in. and 3/4 in.
 Note: CEC 2012 rule 30-302: 4) Where the weight of a luminaire does not exceed 23 kg (50 lb.), the luminaire shall be permitted to be supported by a ceiling outlet box attached directly to the building structure or by a ceiling outlet box attached to a bar hanger.



54171K-RT



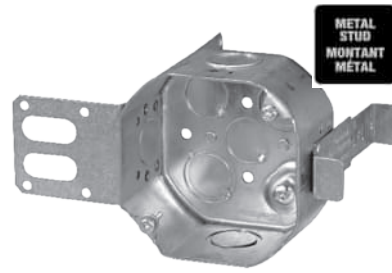
54171L-CRT



54171LB-RT



54171LF-RT



54171KSSX-CRT

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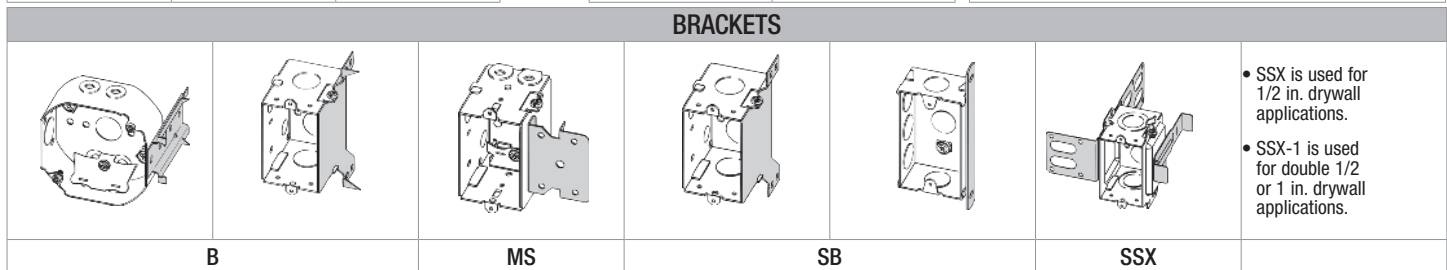
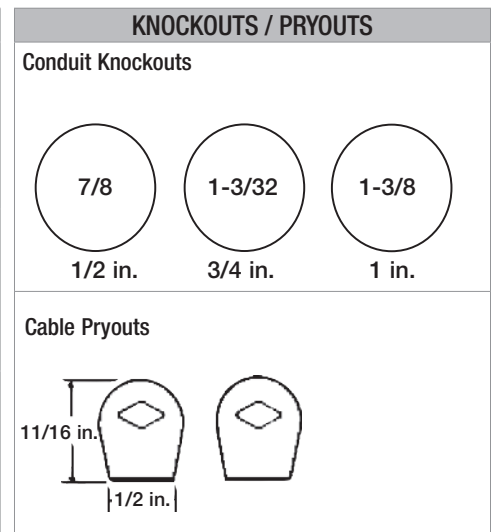
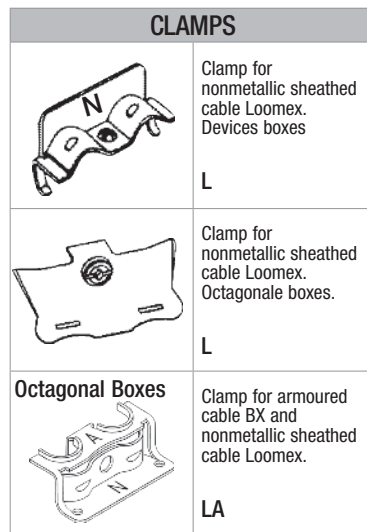
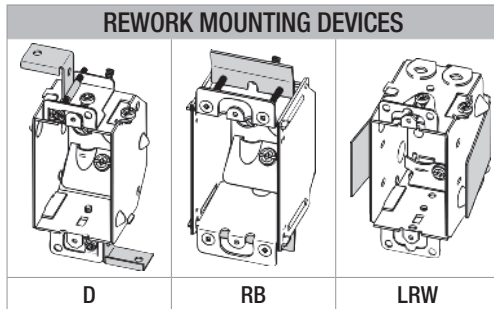


Cat. No.	Features					Conduit Knockouts		
	Cubic Capacity	Usage	Bracket (See page A3)	Ground Qty.	Screw Raised	Max. Load	Sides	Bottom
54171K-RT	21.0	KO	SSX	1	yes	50 lb.	2 x K + 2 x 1/2 in.	2 x K + 2 x 1/2 in.
54171KSSX-CRT			SSX-1				2 x K	
CI54171-KSSX-1		L / LA	SSX	2	no		2 x 1/2 in.	
54171L-RT						B	1 x 1/2 in.	
BC54171-LSSAX			L	B	2	yes	35 lb.	2 x K + 2 x 1/2 in.
54171LB-RT								
54171LF-CRT								

54171LF-CRT is designed for ceiling fan and supplied with 2 #10-32 machine screws and star washers.

Usage: K = Conduit KOs only, L = NMD90 (Loomex, nonmetallic sheathed cable), LA = AC90 (BX, armoured cable) Conduit knockouts: K = concentric 1/2 in. and 3/4 in.

Note: CEC 2012 rule 30-302: 4) Where the weight of a luminaire does not exceed 23 kg (50 lb.), the luminaire shall be permitted to be supported by a ceiling outlet box attached directly to the building structure or by a ceiling outlet box attached to a bar hanger.



*C.E.C. 2012 Rule 12-3010 (2). Where ganged sectional boxes are used, they shall be secured to metal supports or to wooden boards at least 19 mm thick that are rigidly secured to the structural units.

Maximum Number of Conductors ** (with 0 or 1 wire connector)					
Cubic Inch Capacity * (mm)	Box Series No.	14 AWG	12 AWG	10 AWG	8 AWG
5 (81)	56111, OBEX	3	2	2	-
8 (131)	1100	5	4	3	2
10 (163)	425, 775, 1102	6	5	4	3
11 (180)	777	7	6	4	4
12 (197)	3102	8	6	5	4
12.5 (204/gang)	525, 1104, 2104, 4104, 4204, 4304	8	7	5	4
13 (213)	1141, 2018	8	7	5	4
14 (229/gang)	2020	9	8	6	5
14.5 (237)	1304, 2304	9	8	6	5
15 (245)	1004, 1504, 54151, 55151	10	8	6	5
16 (262/gang)	1004-LB, 1204, 3104	10	9	7	5
16.5 (270)	1110	11	9	7	6
18 (295)	1018, 1804, 3004, 54521	12	10	8	6
18.5 (303)	1151, 1199, 2004	12	10	8	6
21 (344/gang)	52151, 53151, 54171, MBD	14	12	9	7
24 (393)	54531	16	13	10	8
25 (410)	2104 (2 gangs)	16	14	11	9
27 (442)	2304 (2 gangs)	18	15	12	9
30 (491)	52171, 53171, 72151, 73151	20	17	13	10
33 (540)	2-WSW, 2-FWSW	22	18	14	12
36 (590)	54551	24	20	16	13
37.5 (614)	2104 (3 gangs)	25	21	16	13
39.5 (647)	2304 (3 gangs)	26	21	17	17
42 (688)	54561, 72171, 73171	28	24	18	15
50 (819)	2104 (4 gangs)	33	28	22	18
52 (853)	2304 (4 gangs)	34	29	23	18

The Canadian Electrical Code specifies that the maximum number of conductors to be contained in a box is determined by the following factors:

- The total volume of the box assembly (box, extension, raised cover).
- The size (AWG) of the insulated conductors.
- The presence and thickness of flush devices mounted on a single strap.
- The number of wire connectors in the box.

* When a single strap device is more than 1 in. thick, reduce box capacity by: 5 cu. in. x thickness of device.

** The maximum number of conductors shown in the table must be reduced in each of the following cases:

- One conductor, if the box contains one or more fixture studs or hickeyes.
- One conductor for every additional pair of wire connectors. (1 conductor for 2 or 3 wire connectors, 2 conductors for 4 or 5 wire connectors...).
- Two conductors for each single strap flush device up to 1 inch thick.
- 1 cu. in. = 16.4 milliliters = 16.4 cubic centimeters

Space for conductors in boxes		
Size of Conductors (AWG)	Usable space required for each Insulated Conductor (cu. in.) (cu. cm.)	
14	1.50	24.6
12	1.75	28.7
10	2.25	36.9
8	2.75	45.1
6	4.50	73.7