

5 Knuckle Slip-In Hinges

Standard Weight Concealed Bearing – Application “A”

- CB179 – (ANSI A8152) Slip-in application “A”, steel – polished and plated or painted
- CB191 – (ANSI A2152) Slip-in application “A”, brass or bronze – polished and plated or painted
- CB191 (32) – (ANSI A5152) Slip-in application “A”, stainless steel – highly polished
- CB191 (32D) – (ANSI A5152) Slip-in application “A”, stainless steel – satin finish



- For aluminum doors with aluminum frames
- “Slip-in” application where one leaf of hinge is inserted through a slot in door or frame, and the other leaf mortised
- Application A – specify “swaged to provide 3/16” (4.8mm) clearance between leaves when parallel and one leaf with standard punching and countersinking and other leaf drilled and tapped.” Specify hand desired.
- Round corners – use prefix “RD” and specify radius desired. 1/4” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in non-ferrous hinges are stainless steel

Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece*	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel		Bronze	
							Lbs.	(Kg)	Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	3 ea.	48 ea.	44	(20)	45	(21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	3 ea.	48 ea.	52	(24)	55	(25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	3 ea.	48 ea.	55	(25)	59	(27)

* For application A when used on wood doors, specify wood screws for door leaf

Standard Weight Concealed Bearing – Application “B”

- CB179 – (ANSI A8142) Slip-in application “B”, steel – polished and plated or painted
- CB191 – (ANSI A2142) Slip-in application “B”, brass or bronze – polished and plated or painted
- CB191 (32) – (ANSI A5142) Slip-in application “B”, stainless steel – highly polished
- CB191 (32D) – (ANSI A5142) Slip-in application “B”, stainless steel – satin finish



- For aluminum doors with aluminum frames
- “Slip-in” application where both leaves of hinge are inserted through slots in door and frame
- Application B – specify “both leaves swaged to provide 5/16” (7.9mm) clearance between leaves when parallel and both leaves drilled and tapped”
- Round corners – use prefix “RD” and specify radius desired. 1/4” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel
- Not handed

Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece*	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel		Bronze	
							Lbs.	(Kg)	Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	3 ea.	48 ea.	44	(20)	45	(21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	3 ea.	48 ea.	52	(24)	55	(25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	3 ea.	48 ea.	55	(25)	59	(27)

General Hinge Information

Special Situation Products

- “CE” Concealed electric hinges conduct current regardless of door position to electric locks, exit devices, or hold open devices where tamper-proof hinge is required. Also to transmit signals from code readers on doors to remote computers for access control
- No electrical parts are exposed when hinge is installed
- Permanent fast pin
- Hinges should be installed in the center hinge location
- Not available as swing clear or raised barrel
- Hinges may be equipped with both concealed wires and concealed switches. When both are desired on the same hinge use prefix “CECS”
- Packed one per box with all machine screws and installation instructions
- When ordering specify class number, size, finish and number of wires
Suffix -54 for 4 wires, 56 for 6 wires -66 for 6 wires (2@24AWG, 4@28AWG), 58 for 8 wires or 10 for 10 wires
- Should be used along with a junction box
- Can be furnished with hospital tips



Electrical Ratings				
Suffix	# Wires	Wire Gage	Volts (AC or DC)	
			6, 12, 24	48
Current				
-54	4	28AWG	1 amp/wire	5 milli-amp/wire
-56	6	28AWG	.7 amp/wire	5 milli-amp/wire
-58	8	28AWG	.5 amp/wire	5 milli-amp/wire
-10	10	28AWG	.4 amp/wire	5 milli-amp/wire
-66*	6	2@24AWG	2 amp/wire	5 milli-amp/wire
		4@28AWG	1 amp/wire	5 milli-amp/wire
18**	8	2@18AWG	10amp/wire	5 milli-amp/wire
		6@28AWG	.7amp/wire	5 milli-amp/wire

Class Number				Sizes Available	
CB179,	FBB179,	CB1900R			
CB168,	FBB168,	CB1901R	4 1/2" x 4"	(114mm x 102mm)	
CB191,	FBB191,	CB1960R	4 1/2" x 4 1/2"	(114mm x 114mm)	
CB199,	FBB199,	CB1961R	5" x 4"	(127mm x 102mm)	
			5" x 4 1/2"	(127mm x 114mm)	
			5" x 5"	(127mm x 127mm)	
			6" x 4 1/2"	(152mm x 114mm)	
			6" x 5" *	(152mm x 127mm)	
			6" x 6" *	(152mm x 152mm)	

* Not available in CB191, FBB191, CB1900R and CB1960R

Inrush 15A for .05 second/wire

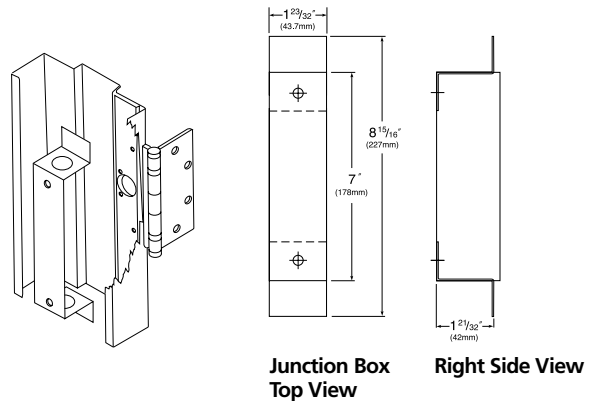
“CE” hinges are listed by UL at these ratings

* Not available in FBB168 and FBB199

** -18 and -12C are only available on models CB168, CB179, CB191 & CB-199.

JB2R – Junction Box

- Note: Install in middle hinge location
- Can be shop welded or field installed — before frames are set
- Fits either 4 1/2" (114mm) or 5" (127mm) size hinges



General Hinge Information

Special Situation Products

- "CS" (Concealed Switch) Allows opening monitoring, switch operates when door is either open or closed. Used to activate alarms, monitoring devices, or other security equipment when a tamper-proof hinge is required
- Single pole double throw switch
- Packed one per box with screws and installation instructions
- No electrical parts are exposed when hinge is installed
- Hinges should be installed in the center hinge location
- When ordering specify class number, size, finish and hand of door
- Hinges are available as follows:
 - with Non-Removable Pins (NRP)
 - with hospital tips (HT)

CSCB179
CSCB168
CSCB191
CSCB199
5-Knuckle
Concealed
Bearings



CSFBB179
CSFBB168
CSFBB191
CSFBB199
5-Knuckle
Exposed
Bearings



CSCB1900R
CSCB1901R
CSCB1960R
CSCB1961R
3-Knuckle
Concealed
Bearings



Electrical Ratings		
Volts	Current Rating	
AC or DC	Resistive	Inductive
6	.30amp	.30amp
12	.25amp	.25amp
24	.20amp	.15amp
48	.15amp	.12amp

Class Number			Sizes Available	
CB179,	FBB179,	CB1900R		
CB168,	FBB168,	CB1901R	4 1/2" x 4"	(114mm x 102mm)
CB191,	FBB191,	CB1960R	4 1/2" x 4 1/2"	(114mm x 114mm)
CB199,	FBB199,	CB1961R	5" x 4"	(127mm x 102mm)
			5" x 4 1/2"	(127mm x 114mm)
			5" x 5"	(127mm x 127mm)
			6" x 4 1/2"	(152mm x 114mm)
			6" x 5" *	(152mm x 127mm)
			6" x 6" *	(152mm x 152mm)

Hinges may be equipped with both concealed wires and concealed switch. When both are desired use prefix CECS. Specify hand.



**5-Knuckle
Concealed Bearings**



**5-Knuckle
Ball Bearings**



**3-Knuckle
Concealed Bearings**