

black & white®

50A Locking
Plugs and Connectors
3 Wire and 4 Wire
Installation Instructions

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PK-93454-10-00-0B



LIMITED LIFETIME WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use during the lifetime of the product. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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PK-93454-10-00-0B

ENGLISH

INSTALLATION INSTRUCTIONS

WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!

CAUTIONS: - TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH ELECTRICAL CODES AND REGULATIONS.

- IF YOU ARE UNSURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT AN ELECTRICIAN.
- ENSURE THAT THE LOCKING PLUG AND/OR CONNECTOR HAS THE PROPER ELECTRICAL RATING FOR THE SYSTEM ON WHICH IT IS BEING INSTALLED.
- THESE DEVICES ARE FOR GROUNDING CIRCUITS, OR EQUIPMENT GROUNDING **ONLY**. **DO NOT** USE IN NON-GROUNDING APPLICATIONS.

NOTE: WIRE SIZE AND TYPE MUST COMPLY WITH APPROPRIATE LOCAL ELECTRICAL CODES. IN USA REFER TO NEC TABLES ARTICLE 400. **USE COPPER WIRE ONLY.**

SELECT A CABLE OF SUITABLE AMPACITY, SERVICE, AND TEMPERATURE RATING.

THE CORD TYPES ARE: S, SO, SOO, SOW, ST, STO, STOO.

THE CORD GAGES ARE FROM # 10 AWG TO # 4AWG.

THE CORD STRAIN RELIEF FOR BOTH THE CLAMP TYPE, AND THE NUT TYPE DESIGN, WILL ACCOMMODATE CORD DIAMETERS FROM .680" (17.3 mm) TO 1.200" (30.5 mm).

TO INSTALL:

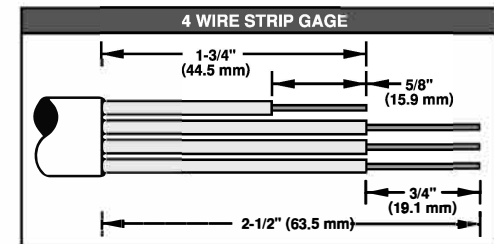
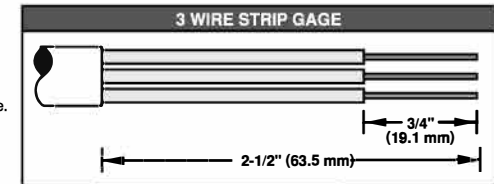
NOTE: Leviton 50A 3 Wire and 4 Wire Locking Plugs and Connectors are available with either a Clamp type cable strain relief, or Nut type.

Installation using CLAMP type strain relief - DIAGRAM 1:

- WARNING:** TO AVOID FIRE, SHOCK, OR DEATH **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- Separate housing from wiring module by grasping device firmly from front. With thumb, press and hold the release button and twist housing counterclockwise.
- Loosen (or remove) the two cable clamp screws from housing. Remove, or keep cable clamp insert, depending on cable size, as per gage on device, or see **CABLE CLAMP STRAIN RELIEF CHART**.
- Feed cable through housing, and strip 2-1/2" (63.5 mm) from cord jacket, making sure not to cut insulation on conductors.
- On 3 wire Installations:** Strip all insulation from conductors 3/4" (19.1 mm), as per strip GAGE molded on the back of wiring module.
- On 4 wire Installations:** *The length of the grounding conductor is shorter because the wiring chamber is located higher on the back cover:* Cut GROUNDING conductor to a length of 1-3/4" (44.5 mm) and strip insulation 5/8" (15.9 mm). Strip insulation on the other conductors 3/4" (19.1 mm), as per strip GAGE molded on the back of wiring module.
- Make sure that stripped conductors are clean, and of a bright copper color. If necessary twist strands of each stripped conductor tightly. **DO NOT TIN CONDUCTORS.**
- NOTE:** DO NOT LOOSEN TERMINAL SCREWS.
- Attach grounding wire first by inserting stripped conductor into grounding wire well, and tighten terminal to 35 in-lb of torque, using a 5/32" Allen wrench. **CAUTION:** TERMINALS MUST TIGHTEN ONTO CONDUCTORS, NOT INSULATION.
- With grounding conductor tightened, align each stripped conductor to marked wire well on wiring module as per **TABLE 1**. Insert each conductor and tighten each wiring terminal 35 in-lb of torque, using a 5/32" Allen wrench. Check for stray wire strands.
- Reattach wiring module to housing by engaging the thread of the two parts. Press and hold the release button and turn housing clockwise until completely tightened.
- Alternately tighten cord clamp screws to 20 in-lb (2.3 Nm).

Installation using NUT type strain relief - DIAGRAM 2:

- WARNING:** TO AVOID FIRE, SHOCK, OR DEATH **TURN OFF POWER** AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- Separate housing from wiring module by grasping device firmly from front. With thumb, press and hold the release button and twist housing counterclockwise.
- Remove nut from back of housing by turning counterclockwise. Select proper size of rubber bushing and strain relief grip washer. Break off from the four sizes supplied. See **NUT TYPE STRAIN RELIEF CHART**.
- Insert selected rubber bushing right side up on back of housing as shown in **DIAGRAM 2**.
- Insert cord through nut, strain relief grip washer, and feed cable through housing. See **DIAGRAM 2**. **DO NOT REVERSE ORIENTATION OF STRAIN RELIEF GRIP WASHER AND RUBBER BUSHING.**
- Strip 2-1/2" (63.5 mm) from cord jacket, making sure not to cut conductors insulation.
- On 3 wire Installations:** Strip all conductors insulation 3/4" (19.1 mm), or as per strip GAGE molded on the back of wiring Module.
- On 4 wire Installations:** *The length of the grounding conductor is shorter because the wiring chamber is located higher on the back cover:* Cut GROUNDING conductor to a length of 1-3/4" (44.5 mm) and strip insulation 5/8" (15.9 mm). Strip insulation on the other conductors 3/4" (19.1 mm), as per strip GAGE molded on the back of wiring module.
- Make sure that stripped wires are clean, and of a bright copper color. If necessary twist strands of each stripped conductor tightly. **DO NOT TIN CONDUCTORS.**
- NOTE:** DO NOT LOOSEN TERMINAL SCREWS.
- Attach grounding wire first by inserting stripped conductor into grounding wire well and tightening terminal to 35 in-lb of torque, using a 5/32" Allen wrench. **CAUTION:** TERMINALS MUST TIGHTEN ONTO CONDUCTORS, NOT INSULATION.
- With grounding conductor tightened, align each stripped conductor to marked wire well on wiring module as per **TABLE 1**. Insert each conductor and tighten each wiring terminal to 35 in-lb of torque, using a 5/32" Allen wrench. Check for stray wire strands.
- Reattach wiring module to housing by engaging the thread of the two parts. Press and hold the release button and turn housing clockwise until completely tightened.
- Push strain relief grip washer up against rubber bushing. Push up the cable relief nut to engage housing thread. Firmly hold housing, and tighten the cable relief nut, turning clockwise, until completely tightened.



CABLE CLAMP STRAIN RELIEF CHART		
Cable clamp with insert	.650 – .835	AWG 10/3, 10/4, 8/3
Cable clamp with out insert	.930 – 1.20	AWG 8/4, 6/3, 6/4, 4/3

NUT TYPE STRAIN RELIEF CHART		
No. 1 Bushing and Grip Washer (smallest diameter)	.650 – .710	AWG 10/3 - 10/4
No. 2 Bushing and Grip Washer	.835	AWG 8/3
No. 3 Bushing and Grip Washer	.930 – .990	AWG 8/4 - 6/3
No. 4 Bushing and Grip Washer (largest diameter)	1.055 – 1.200	AWG 6/4 - 4/3

TABLE 1	
Terminal Designation	Conductor Color
G, GRND, GREEN, or Eq G (Grounding terminal)	Bare, Green, or Green/Yellow wire
W, or WHITE (Neutral terminal)	White or Gray wire
X, Y, Z, or BLANK (Hot terminal)	Other than White, Green, Gray, Green/Yellow or Bare wire

DIAGRAM 1 - CLAMP TYPE STRAIN RELIEF

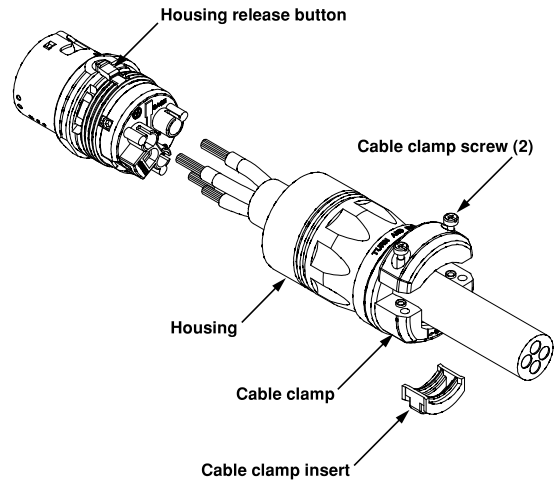
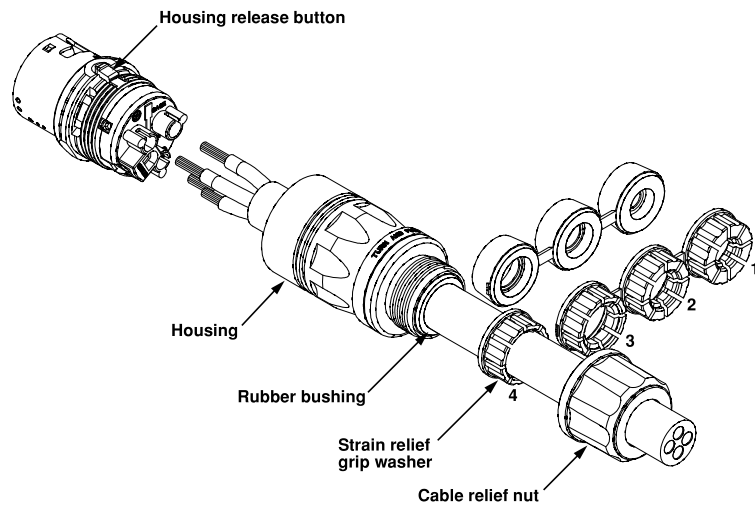














































DIAGRAM 2 - NUT TYPE STRAIN RELIEF



CONFIGURATION

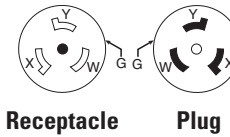
Standard				
Locking Connector	Locking Plug	Locking Flanged Inlet	Locking Receptacle	APPLICATION
 3762C	 3763C	 3777	 3771	50A, 2 Pole, 3 Wire, 250 V DC/600 V AC Grounding Non-NEMA
 7764C*	 7765C*	 7958*	 7379*	50A, 3 Pole, 4 Wire, 250 V DC/600 V AC Grounding Non-NEMA
 3764	 3765C	 3775	 3769	50A, 3 Pole, 4 Wire, 250 V DC/600 V AC Grounding Non-NEMA
CR Corrosion Resistant				
 6360CR	 6361CR	 6377CR	 6370CR	50A, 2 Pole, 3 Wire, 125V Grounding NEMA #SS1
 6364CR	 6365CR	 6375CR	 6369CR	50A, 3 Pole, 4 Wire, 125/250V Grounding NEMA #SS2
CS California Style				
 CS6360C	 CS6361C	 CS6377	 CS6370	50A, 2 Pole, 3 Wire, 125 V Grounding Non-NEMA
 CS8264C	 CS8265C	 CS8275	 CS8269	50A, 2 Pole, 3 Wire, 250 V Grounding Non-NEMA
 CS8464C	 CS8465C	 CS8475	 CS8469	50A, 2 Pole, 3 Wire, 480 V Grounding Non-NEMA
 CS6364C	 CS6365C	 CS6375	 CS6369	50A, 3 Pole, 4 Wire, 125/250 V Grounding Non-NEMA
 CS8364C	 CS8365C	 CS8375	 CS8369	50A, 3 Pole, 4 Wire, 3Ø, 250 V Grounding Non-NEMA
 CS8164C	 CS8165C	 CS8175	 CS8169	50A, 3 Pole, 4 Wire, 3Ø, 480 V Grounding Non-NEMA

* This device is for replacement use only in existing installations.

Industrial grade 50A locking devices

Product description

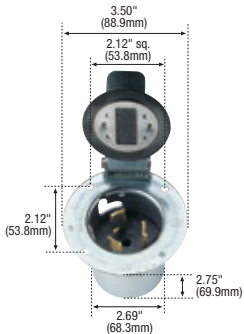
3-pole, 4-wire grounding
50A, 125/250V/AC
Non-NEMA, California standard



CS6365EX



CS6364EX



CS6376

California standard plugs & connectors



Rating A	V/AC	Description	Cord diameter	Color	Plug catalog no.	Connector catalog no.		
50	125/250	Pro grip nylon	0.44-1.06" (11.1-26.0mm)	RD & BK	□ CS6365EX	□ CS6364EX	•	•
		Armored	0.68-1.13" (17.3-28.6mm)	Steel	□ CS6365		•	•
		Armored	0.68-1.13" (17.3-28.6mm)	Steel		□ CS6364	•	•

California standard grade receptacles



Rating A	V/AC	Description	Color	Single receptacle		
50	125/250	California standard receptacles	BK	□ CS6369	•	•

California standard flanged inlets



Rating A	V/AC	Description	Color	Flanged inlet	Flanged inlet w/ lid		
50	125/250	California standard flanged inlets	Steel	□ CS6375	□ CS6376	•	•

Accessories for 50A California standard locking devices

Description	Color suffix	Catalog no.		
Weather protective glass-filled nylon, w/ lift lid cover	BK, CR, GY	□ 7788__	•	•
Weather protective diecast aluminum, w/ lift lid cover		□ 7770	•	
Weather protective boot for 50A armored plug		□ 7716	•	
Weather protective boot for 50A armored connector		□ 7717	•	
Weather protective boot for 50A pro grip plug		□ 7716EX	•	
Weather protective boot for 50A pro grip connector		□ 7717EX	•	



7788CR
Corrosion
resistant



7770



7716



7717



7716EX



7717EX

Dimensional information:
C-80, C-81

Plug & connector specification information:
50A: C-92

Receptacle specification information:
50A: C-92

Flanged inlet & flanged outlet specification information:
50A: C-92

Color ordering information:

For ordering devices, include Catalog no. followed by the Color suffix: BK (Black), GY (Gray), RD (Red), Y or CR (Yellow)

BK	GY	RD	Y or CR	
(Black)	(Gray)	(Red)	(Yellow)	(Steel)

Compliances, specifications and availability are subject to change without notice.

Indicates NAFTA compliant - Page Q-32

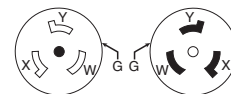
RoHS compliant - Page Q-32

Hart lock industrial grade 50A locking devices

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Description

3-pole, 4-wire grounding
50A, 125/250V/AC, 3Ø, 250V/AC
Non-NEMA, California standard

**Receptacle****Plug**

Design features for 50A California standard locking devices:

- Pro grip lock provides visual confirmation that device is assembled properly
- Deep tapered wire wells accept up to #4 AWG UL wire – key for long cable runs
- Glass-filled nylon body for superior strength and heat performance
- Unique 3-step assembly process for pro grip plugs and connectors
- Single piece heavy-duty plated mounting strap
- Stainless steel tri-combo assembly screws
- Receptacles utilize rugged, single piece plated mounting strap for corrosion resistance
- Primary applications are temp power, generators, heavy equipment
- Available in armored, marine grade and pro grip nylon shell

Compliances, specifications and availability are subject to change without notice.



CS6365EX



CS6364EX



CS6365

EATON

Powering Business Worldwide

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:



CS6376



CS8364



CS8369

Table 1. 50A California standard plugs & connectors

Plug catalog no.	Connector catalog no.	Description	Cord diameter	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS6365EX	<input type="checkbox"/> CS6364EX	Pro grip nylon	0.44-1.25" (11.1-31.8mm)	50	125/250	RD & BK
<input type="checkbox"/> CS6365	<input type="checkbox"/> CS6364	Armored	0.68-1.13" (17.3-28.6mm)	50	125/250	Steel

Table 2. 50A California standard receptacles

Single receptacle catalog no.	Description	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS6369	California standard receptacles	50	125/250	BK

Table 3. 50A California standard flanged inlets

Flanged inlet catalog no.	Flanged inlet w/lid catalog no.	Description	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS6375	<input type="checkbox"/> CS6376	California standard flanged inlets	50	125/250	Steel

Table 4. 50A 3 Phase California standard plugs & connectors

Plug catalog no.	Connector catalog no.	Description	Cord diameter	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS8365EX	<input type="checkbox"/> CS8364EX	3Ø pro grip nylon	0.44-1.25" (11.1-31.8mm)	50	250	RD & BK
<input type="checkbox"/> CS8365	<input type="checkbox"/> CS8364	3Ø armored	0.68-1.13" (17.3-28.6mm)	50	250	Steel

Table 5. 50A 3 Phase California standard receptacles

Single receptacle catalog no.	Description	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS8369	3Ø California standard receptacles	50	250	BK

Table 6. 50A 3 Phase California flanged inlets

Flanged inlet catalog no.	Flanged inlet w/lid catalog no.	Description	Rating A	Rating V/AC	Color
<input type="checkbox"/> CS8375	<input type="checkbox"/> CS8377	3Ø California standard flanged inlets	50	250	Steel

Table 7. Weather Protective Accessories for 50A Devices

Catalog No.	Description	Color suffix
<input type="checkbox"/> 7788__	Weather protective glass-filled nylon, w/lift lid cover	BK, CR, GY
<input type="checkbox"/> 7770	Weather protective diecast aluminum, w/lift lid cover	
<input type="checkbox"/> 7716	Weather protective boot for 50A armored plug	
<input type="checkbox"/> 7717	Weather protective boot for 50A armored connector	
<input type="checkbox"/> 7716EX	Weather protective boot for 50A pro grip plug	
<input type="checkbox"/> 7717EX	Weather protective boot for 50A pro grip connector	



7788CR



7770



7716



7717



7716EX



7717EX

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Applications

Our rugged glass-filled nylon California standard receptacles, plugs, connectors, and flanged inlets provide outstanding service and durability in the demanding environments found at manufacturing facilities, welding sites, and other general construction. Featuring innovative design for easy wiring and assembly, each device's locking action is easy to implement and ensures safe and reliable connectivity. The face of each device is clearly marked with amperage, voltage, wiring configuration, and catalog number for easy identification.

Table 8. Specifications

Device type	50A locking pro grip nylon plugs & connectors	50A locking armored plugs & connectors	50A locking receptacles	50A locking flanged inlets
Wiring type	Back wire	Back wire	Back wire	Back wire
Testing & code compliance	• cULus Listed to UL498, file no. E3663	• cULus Listed to UL498, file no. E3663	• Listed to UL498, file no. E3663 • CSA certified to C22.2, no. 42	• Listed to UL498, file no. E3663 • CSA certified to C22.2, no. 42
Environmental specifications	Flammability: Meets UL94 requirements, V0 rated Temperature rating: -40°C to 105°C (-40°F to 221°F)	Flammability: Meets UL94 requirements, V0 rated Temperature rating: -40°C to 95°C (-40°F to 203°F)	Flammability: Meets UL94 requirements, V0 rated Temperature rating: 40°C to 105°C (-40°F to 221°F)	Flammability: Meets UL94 requirements, V0 rated Temperature rating: 40°C to 105°C (-40°F to 221°F)
Electrical specifications	Dielectric voltage: Twice the device rating + 1000V per UL498 Current interrupting: Yes, at full-rated current Temperature rise: For connectors: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)	Dielectric voltage: Twice the device rating + 1000V per UL498 Current interrupting: Yes, at full-rated current Temperature rise: For connectors: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)	Dielectric voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current interrupting: Yes, at full-rated current Temperature rise: For connectors: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)	Dielectric voltage: ≤300V: 2000V, 301-600V: 3000V per UL498 Current interrupting: Yes, at full-rated current Temperature rise: For connectors: max. 30°C (86°F) after 50 cycles of overload @ 150% of rated current (DC)
Mechanical specifications	Terminal accommodation: #10 - #4 AWG Voltage ratings: Permanently marked on device	Terminal accommodation: #10 - #4 AWG Voltage ratings: Permanently marked on device	Terminal accommodation: #10 - #4 AWG Voltage ratings: Permanently marked on device	Terminal accommodation: #10 - #4 AWG Voltage ratings: Permanently marked on device

Table 9. Materials

Device type	50A locking pro grip nylon plugs & connectors	50A locking armored plugs & connectors	50A locking receptacles	50A locking flanged inlets
Outer shell	Nylon, impact modified	Cold-rolled steel, zinc plated	Steel	N/A
Interior body	Glass-filled nylon	Glass-filled nylon	Glass-filled nylon	Glass-filled nylon
Terminal retainer	Glass-filled nylon	Glass-filled nylon	Glass-filled nylon	Glass-filled nylon
Blades	Brass alloy	Brass alloy, nickel plated	N/A	Brass alloy, zinc plated
Line contacts	Brass alloy, zinc plated	Brass alloy, zinc plated	Brass alloy	N/A
Ground shunt	Connectors: 0.027" phosphor bronze	Connectors: 0.027" phosphor bronze	N/A	0.027" phosphor bronze
Terminal clamps	Brass alloy, zinc plated	Brass alloy, zinc plated	Brass alloy, zinc-plated	Brass alloy, zinc-plated
Terminal screws	3/8-27 brass	3/8-27 brass	3/8-27 brass	3/8-27 brass
Ground screw	3/8-27 brass	3/8-27 brass	3/8-27 brass	3/8-27 brass
Assembly/mounting screws	N/A	Steel, zinc plated	N/A	Brass
Gasket/dust shield	Neoprene rubber	Neoprene rubber	N/A	Neoprene rubber
Cord clamp screws	Stainless steel	Stainless steel	N/A	N/A
Cord clamp	Nylon, impact modified	Steel, zinc plated (black)	N/A	N/A
Plug shroud	Cold-rolled steel, zinc plated	Cold-rolled steel, zinc plated	N/A	N/A
Receptacle mounting strap	N/A	N/A	0.060" steel, zinc plated	N/A
Flanged housing/base	N/A	N/A	N/A	Steel, zinc plated

Color ordering information:

For ordering devices, include Catalog no. followed by the Color suffix: BK (Black), GY (Gray), RD (Red), Y or CR (Yellow)

BK	GY	RD	Y or CR	
(Black)	(Gray)	(Red)	(Yellow)	(Steel)

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Product Dimensions

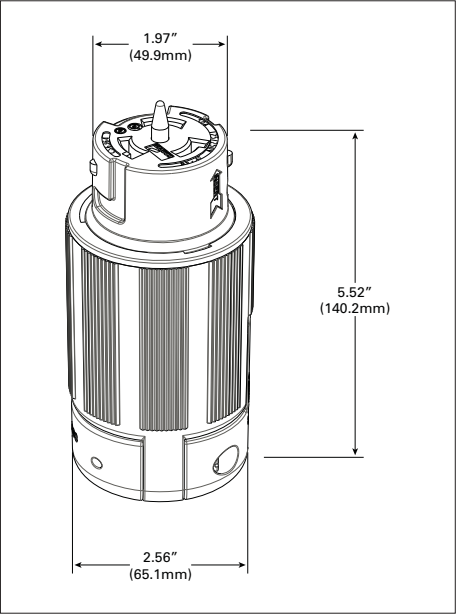


Figure 1. CS6364EX

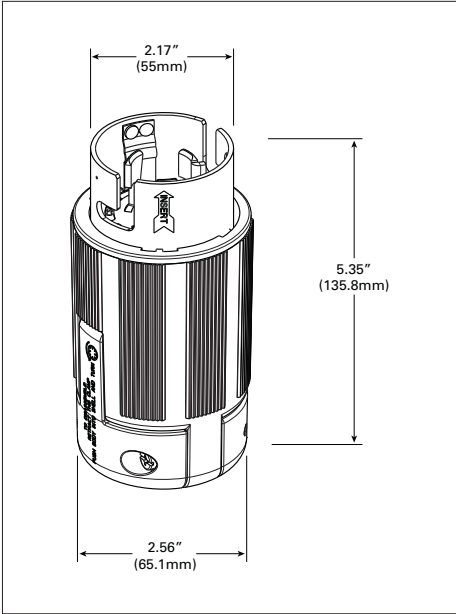


Figure 2. CS6365EX

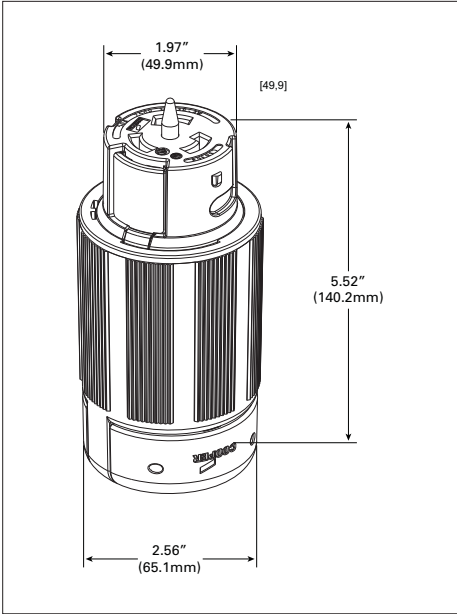


Figure 3. CS8364EX

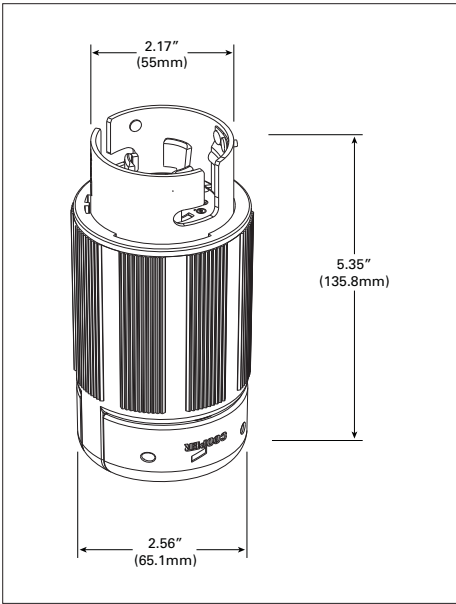


Figure 4. CS8365EX

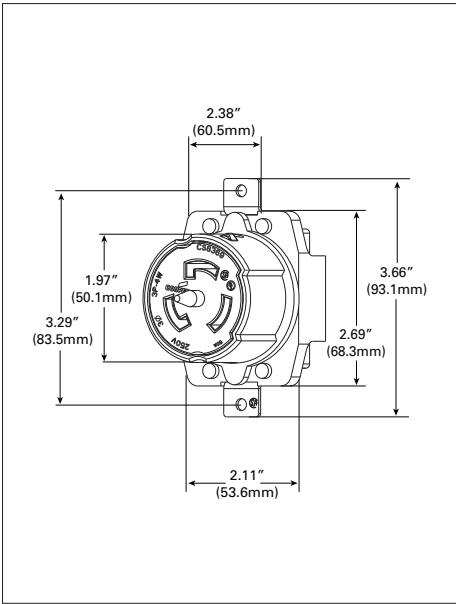







Figure 5. CS8369

Hart lock industrial grade 50A locking devices


Technical Data
Effective January 2015

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Certifications & Compliances

Catalog No.					
CS6365EX	•		•		•
CS6364EX	•		•		•
CS6365	•		•		•
CS6364	•		•		•
CS6369		•	•	•	•
CS6375	•		•		•
CS6376	•		•		•
CS8365EX	•		•		•
CS8364EX	•		•		•
CS8365	•		•		•
CS8364	•		•		•
CS8369		•		•	•
CS8375	•				•
CS8377	•				•
7788			•		•
7770					•
7716					•
7717					•
7716EX					•
7717EX					•

KEY:  cULus  UL  NAFTA  CSA  ROHS

 Parts are manufactured and designed in accordance with article 4 of the European Union's RoHS2 directive 2011/65/EU

Compliances, specifications and availability are subject to change without notice.

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Mexico Operations
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