Watertight Pin and Sleeve **Plugs and Connectors**

PK-A3278-10-00-0B

WARNINGS

- WARNINGS

 TO AVOID FIRE SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE, TEST THAT POWER IS OFF BEFORE SERVICING OR WIRING and ensure connections are made in the same sequence as existing device connections.

 These devices conform to IEC standard 60309-1 and 60309-2. The construction is such that each device cannot be matted with another IEC device of different specifications (i.e., voltage, amperage or system rating). For safety purposes, do not use a non-IEC device with these pin and sleeve devices. The specifications for non-IEC devices are established by the individual manufacturers, and may not meet IEC standards. IMPROPER MATING OF DEVICES MAY CAUSE FIRE, SHOCK OR DEATH.

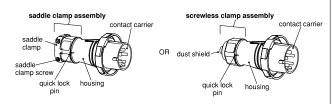
20A, 30A, 60A and 100A CAUTIONS

- · Examine devices periodically for any foreign matter that may contaminate the contacts or the insulation material separating the contacts. Contamination decreases the device's insulation properties. This increases the potential for arcing and possibly decreases the product's life and may cause fire and/or shock hazard. The frequency of inspection depends upon the degree of contamination.
- · If you are unsure about any part of these instructions, consult an electrician.
- To be installed and/or used in accordance with electrical codes and regulations (Including NEC/CEC, as applicable).
- · Use this device only with copper or copper clad wire.

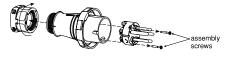
QUICK INSTALL GUIDE

ENGLISH

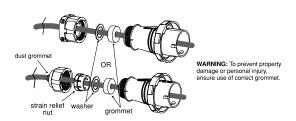
20A and 30A Plug Installation



1. Unscrew assembly and contact carrier.



2. Thread wire.
Select grommet (Table 1) thread clamp assembly, washer, grommet and housing onto selected wire (Table 3).
NOTE: If using screwless clamp assembly, select strain relief nut first (Table 2).



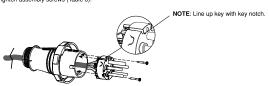
Cut and strip cable jacket and conductors (Table 4).

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as

existing device connections.

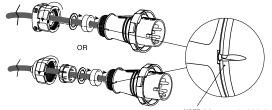
Connect wires (Table 5 and Stripping and Wiring Diagram) and tighten terminal screws. **NOTE**: Reference torque value (Table 6). Allen key included.

4. Reconnect contact carrier.



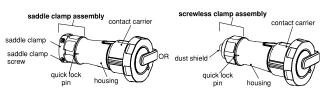
5. Reassemble

Ride grommet and washer down and seat firmly into housing. Slide saddle clamp assembly or screwless clamp assembly onto housing and screw on **until quick lock pin fully engages**. Tighten clamp screws (Table 6).



NOTE: fully engaged quick lock pin

20A and 30A Connector Installation

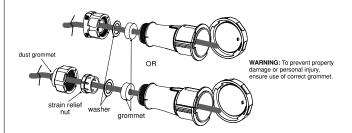


 $oldsymbol{1}$. Unscrew assembly and contact carrier.



2. Thread wire.

Select grommet (Table 1) thread clamp assembly, washer, grommet and housing onto selected wire (Table 3). NOTE: If using screwless clamp assembly, select strain relief nut first (Table 2).



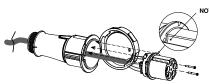
3. Wire.

Cut and strip cable jacket and conductors (Table 4).

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections.

Connect wires (Table 5 and Stripping and Wiring Diagram) and tighten terminal screws. NOTE: Reference torque value (Table 6). Allen key included.

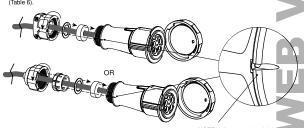
4. Reconnect contact carrier.



NOTE: Line up key with

5. Reassemble.

Slide grommet and washer down and seat firmly into housing. Slide saddle clamp assembly or screwless clamp assembly onto housing and screw on **until quick lock pin fully engages**. Tighten clamp screws (Table 6).



NOTE: fully engaged quick lock pin

60A and 100A Plug Installation

 $oldsymbol{1}$. Unscrew saddle clamp assembly and contact carrier.



2. Thread wire.

Select grommet (Table 1) thread clamp assembly, washer, grommet and housing onto selected wire (Table 3). WARNING: To prevent property damage or personal injury, ensure use of correct grommet.



3. Wire.

VVIII.e.

Cut and strip cable jacket and conductors (Table 4).

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections.

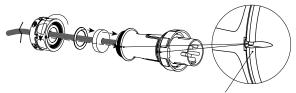
Connect wires (Table 5 and Stripping and Wiring Diagram) and tighten terminal screws. NOTE: Reference torque value (Table 6). Allen key included.

4. Reconnect contact carrier.



5. Reassemble.

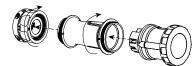
Slide grommet and washer down and seat firmly into housing. Slide saddle clamp assembly or screwless clamp assembly onto housing and screw on **until quick lock pin fully engages**. Tighten clamp screws (Table 6).



NOTE: fully engaged quick lock pin

60A and 100A Connector Installation

1. Unscrew saddle clamp assembly and contact carrier.



2. Thread wire.

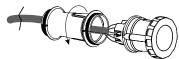
Select grommet (Table 1) thread clamp assembly, washer, grommet and housing onto selected wire (Table 3). WARNING: To prevent property damage or personal injury, ensure use of correct grommet.



3. Wire.

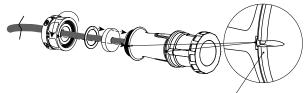
VVITe.
Cut and strip cable jacket and conductors (Table 4).
WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections.
Connect wires (Table 5 and Stripping and Wiring Diagram) and tighten terminal screws. NOTE: Reference torque value (Table 6). Allen key included.

4. Reconnect contact carrier.



5. Reassemble.

Slide grommet and washer down and seat firmly into housing. Slide saddle clamp assembly or screwless clamp assembly onto housing and screw on **until quick lock pin fully engages**. Tighten clamp screws (Table 6).



NOTE: fully engaged quick lock pin

0	1 20A 3-4 Wire Grommet Usage						
Amperage	Wire Diameter (in)	Wire Diameter (mm)	Grommet Marking				
	0.300 - 0.425	7.620 -10.795	٧				
20A	0.425 - 0.550	10.795 -13.970	w				
204	0.550 - 0.675	13.970 - 17.145	×				
	0.675 - 0.860	17.145 - 21.844	Υ				
20A 5	Wire & 30A 3,4	4, 5 Wire Grom	met Usage				
	0.325 - 0.500	8.255 - 12.700	T				
	0.500 - 0.625	12.700 - 15.875	s				
20A & 30A	0.625 - 0.750	15.875 - 19.050	R				
20/10/00/	0.750 - 0.875	19.050 - 22.225	Q				
	0.875 - 1.000	22.225 - 25.400	Р				
	1.000 - 1.125	25.400 - 28.575	0				
	60A Gro	mmet Usage					
	0.600 - 0.725	15.240 - 18.415	N				
	0.725 - 0.850	18.415 - 21.590	М				
	0.850 - 0.975	21.590 - 24.765	L				
60A	0.975 - 1.163	24.765 - 29.540	K				
	1.163 - 1.350	29.540 - 34.290	J				
	1.350 - 1.475	34.290 - 37.465	1				
	1.475 - 1.600	37.465 - 40.640	Н				
	100A Gr	ommet Usage					
	0.725 - 0.850	18.415 - 21.590	Α				
	0.850 - 0.975	21.590 - 24.765	В				
	0.975 - 1.163	24.765 - 29.540	С				
100A	1.163 - 1.350	29.540 - 34.290	D				
	1.350 - 1.475	34.290 - 37.465	E				
	1.475 - 1.600	37.465 - 40.640	F				
	1.600 - 1.775	40.640 - 45.085	G1				
	1.775 - 1.950	45.085 - 49.530	G2				

2	20A 3-4 Wire Strain Relief Nut & Dust Shield Usage						
Amperage	Wire Diameter (in)	Wire Diameter (mm)	Strain Relief Nut & Dust Shield Marking				
	0.300 - 0.425	7.620 -10.795	V				
20A	0.425 - 0.550	10.795 -13.970	w				
20A	0.550 - 0.675	13.970 - 17.145	х				
	0.675 - 0.860	17.145 - 21.844	Υ				
		30A 3, 4 and 5 & Dust Shield					
	0.325 - 0.500	8.255 - 12.700	T				
	0.500 - 0.625	12.700 - 15.875	s				
20A & 30A	0.625 - 0.750	15.875 - 19.050	R				
	0.750 - 0.875	19.050 - 22.225	Q				
	0.875 - 1.000	22.225 - 25.400	Р				
	1 000 - 1 125	25 400 - 28 575	0				

(3)					Wire	Sizes						
Device	Dovine		From		То		То		То		Grip Range Min./Max.	Grip Range Min./Max.
501100	AWG	COND	TYPE	AWG	COND	TYPE	Wire Diam. (in)	Wire Diam. (mm				
		3			3							
20A	#14	4		#10	4	s	0.330/0.830	8/21				
		5	s		5		1	l				
		3] "		3							
30A	#12	4		#8	4	S or W	0.580/1.125	15/29				
		5			5							
		3			3							
60A	#8	4	S or W	#2	4		0.875/1.450	22/37				
		5			5	w						
		3			3							
100A	#6	4	w	#1	4		0.725/1.890	18/48				
		5			5							

4	Cable and Wire Stripping Guide							
Device	No. Wires	Conductor	Cable Ja	acket (A)	Condu	ctor (B)		
Device	No. wires	Conductor	Inches	mm	Inches	mm		
20A			1.375	35	0.375	10		
30A	1		1.625	41	0.625	16		
60A	All	All	3.5	89	1	25		
100A	1		4.25	108	1	25		

Stripping and Wiring Diagram	
Green equipment grounding conductor only (or green with yellow stripes). White or gray, system ground or neutral conductor only, (SeeTable 4)	L2 L1 L3 reen dot and

5 Terminal identification Chart					
and green color	Equipment ground conductor				
N and white color	Grounded circuit conductors (neutral)				
L1, L2, L3	Ungrounded circuit conductors (line, hot)				
Pilot	Control circuit conductor.				

I	6	Screw Tightening Guide in-lbs (N-m)							
	Device	Terminal Screws	Pilot Terminal Screws	Assembly Screws	Cable Clamp Screws				
ĺ	20A	/							
İ	30A	20 (2.26)	N/A	8 (0.9)	10 (1.13)				
İ	60A	/			1				
ĺ	100A	50 (5.65)	20 (2.26)	N/A	15 (1.69)				

LIMITED 5 YEAR 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 for three years from the purchase date. 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 impro perly 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, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. 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 othe

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Poli (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.



Watertight Pin and Sleeve Inlets and Receptacles

20A, 30A, 60A and 100A

WARNINGS

- TO AVOID FIRE SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE, TEST THAT POWER IS OFF BEFORE SERVICING OR WIRING!
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- Examine devices periodically for any foreign matter that may contaminate the contacts or the insulation material separating the contacts. Contamination decreases the device's insulation properties. This increases the potential for arcing and possibly decreases the product's life and may cause fire and/or shock hazard. The frequency of inspection depends upon the degree of contamination.
- If you are unsure about any part of these instructions, consult an electrician.
- To be installed and/or used in accordance with electrical codes and regulations (Including NEC/CEC, as applicable).

CAUTION

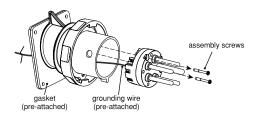
Use this device only with copper or copper clad wire.

QUICK INSTALL GUIDE

ENGLISH

20A and 30A Inlet Installation

1. Unscrew contact carrier.



2. Wire.

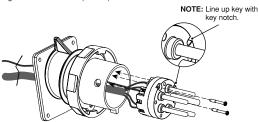
Cut and strip cable jacket and conductors (Table 1 and Stripping and Wiring Diagram).

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections. Thread and connect wires (Table 2 and Stripping and Wiring Diagram). Tighten terminal screws (Table 4). NOTE: Allen key included.

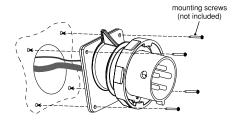
NOTE: Separate grounding wire has been pre-installed. Connect ground wire first.

3. Reconnect contact carrier. Tighten terminal screws (Table 4).



4. Mount.

Mount (Table 5) and tighten mounting screws.



If mounting to a backbox, use Leviton: BX230LEV - non-metallic BX230LEVM metallic

20A and 30A Receptacle Installation

Wire.

Cut and strip cable jacket and conductors (Table 1 and Stripping and Wiring Diagram).

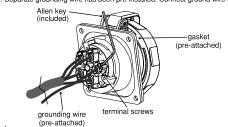
Wiring Diagram).

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections.

Connect wires (Table 2 and Stripping and Wiring Diagram). Tighten terminal

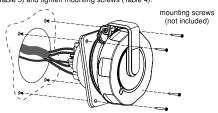
screws (Table 4).

NOTE: Separate grounding wire has been pre-installed. Connect ground wire first.



2. Mount.

Mount (Table 5) and tighten mounting screws (Table 4).

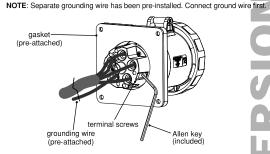


60A and 100A Receptacle Installation

1. Wire.

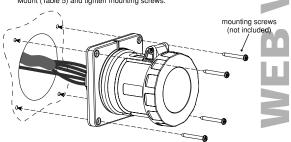
Cut and strip cable jacket and conductors (Table 1 and Stripping and Wiring

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections. Connect wires (Table 2 and Stripping and Wiring Diagram). Tighten terminal screws (Table 4).



2. Mount.

Mount (Table 5) and tighten mounting screws.



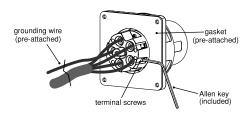
60A and 100A Inlet Installation

Cut and strip cable jacket and conductors (See Table 1 and Stripping and Wiring

WARNING: TO AVOID FIRE, SHOCK OR DEATH, connections must be made in the same sequence as existing device connections.

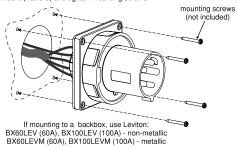
Connect wires. (See Table 2 and Stripping and Wiring Diagram). Tighten terminal

NOTE: Separate grounding wire has been pre-installed. Connect ground wire first.

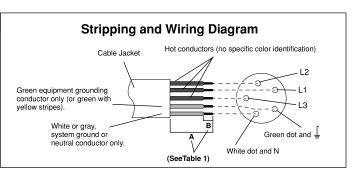


2. Mount.

Mount (Table 5) and tighten mounting screws.



1	Cable Stripping Guide						
	No.	No.	Cable Ja	cket (A)	Conduct	or (B)	
Device	Wires	Conductors	Inches	mm	Inches	mm	
20A			1.375	35	0.375	10	
30A	All	All	1.625	41	0.625	16	
60A			3	76	1	25	
100A			3.5	89	1	25	



2 Terminal Idea	Terminal Identification Chart					
and green color	Equipment ground conductor					
N and white color	Grounded circuit conductors (neutral)					
L1, L2, L3	Ungrounded circuit conductors (line, hot)					
Pilot	Control circuit conductor.					

3				Wi	re Sizes			
Deviler		From			То		Grip Range Min./Max.	Grip Range Min./Max.
Device	AWG	COND	TYPE	AWG	COND	TYPE	Wire Diam. (in)	Wire Diam. (mm)
		3			3			
20A	#14	4	s	#10	4	s	0.330/0.830	8/21
		5			5			
		3			3			
30A	#12	4	s	#8	4	S or W	0.580/1.125	15/29
		5			5			
		3			3			
60A	#8	4	SorW	#2	4	w	0.875/1.450	22/37
		5			5			
		3			3			
100A	#6	4	w	#0	4	w	0.725/1.600	18/41
		5			5			

4 Screw Tightening Guide in-lbs (N-m)						
Device	Terminal Screws	Pilot Terminal Screws	Assembly Screws			
20A	20 (2.26)	N/A	8 (0.9)			
30A	20 (2.26)	N/A	8 (0.9)			
60A	50 (5.65)	20 (2.26)	N/A			
100A	50 (5.65)	20 (2.26)	N/A			

5	Drilling Plan Receptacles & Inlets	
	B - C - C -	clearance hole for "D" size screw

	A		В		C (min)		D
No. Wires; Device	Inches	mm	Inches	mm	Inches	mm	
20A;3 Receptacle	3.26	83	3.12	79.5	3.94	100	#10
20A;3 Inlet	3.26	83	3.12	79.5	3.94	100	#10
20A;4 Receptacle	3.26	83	3.12	79.5	4.33	110	#10
20A;4 Inlet	3.26	83	3.12	79.5	4.33	110	#10
20A;5 Receptacle	3.26	83	3.12	79.5	4.92	125	#10
20A;5 Inlet	3.26	83	3.12	79.5	4.92	125	#10
30A;3 Receptacle	3.26	83	3.12	79.5	5.12	130	#10
30A;3 Inlet	3.26	83	3.12	79.5	5.12	130	#10
30A;4 Receptacle	3.26	83	3.12	79.5	5.12	130	#10
30A;4 Inlet	3.26	83	3.12	79.5	5.12	130	#10
30A;5 Receptacle	3.26	83	3.12	79.5	5.71	145	#10
30A;5 Inlet	3.26	83	3.12	79.5	5.71	145	#10
60A; All	2.76	70	3.86	98	6.69	170	#10
100A; All	3.47	88	4.88	124	7.87	200	#10

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LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

LIMITED 5 YEAR 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 for three years from the purchase date. 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 impro perly 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 find, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. 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 negrent white areas to explain the process of th 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