INSTALLATION INSTRUCTIONS

IDEAL - BUCHANAN
SLK® DISCONNECT FUSE KITS

U.S. Patent 8,517,768,B2

Warning – Shock Hazard
Contact with electricity can cause electrical fires, personal injury, or death. Shut off power to the circuit before installing this product and consult local building codes to determine installation requirements.

This product is not waterproof in its de-mated state or when used without boots.
Live contacts may exist within the LINE side housing.

LISTED
4PH9
Special Purpose
Connector

RATINGS

ELECTRICAL: 30 A, 600 V
(15A max. fuse size for #12 Al & #14 Cu)
TEMPERATURE: 105°C
FUSEHOLDER FLAME RATING: 94V-2
FUSE SIZE ACCEPTED: 1-1/2" x 13/32"
COPPER & ALUMINUM RATED
WIRE RANGE: 2 AWG—14 AWG

UL Listed ECIS Special Purpose Connectors, which includes compliance with:

- UL 486A/B (Wire Connector)
- UL 486D (Submersibility)
- UL 498 (Attachment Plugs & Receptacles)
- UL 1682 (Plugs, Receptacles, & Cable Connectors)

SET SCREW INSTALLATION


Fig. 1

1. Turn OFF power before removing or installing disconnect fuse kits.
2. **Check to assure O-ring is in place within the "LINE" side of fuseholder housing. See Fig.**
3. Install fuse, if applicable. See "FUSE INSTALLATION / REMOVAL" on page 2.
4. Cut "LINE" side insulating boot at proper wire size as highlighted by arrow. **NOTE:** THHN insulation is not rated for use in damp or wet locations. If using wire with THHN insulation, cut boot two (2) sizes smaller than conductor size. Wire range on THHN insulation is #2 - #10.
5. Insert "LINE" side conductor completely through boot, extending out of large open boot end approximately 1".
6. Strip insulation from wire per the strip length chart on page 2.
7. Fully insert "LINE" side conductor(s) into corresponding setscrew lug.
8. Tighten setscrew(s) onto conductor(s) to recommended torque value (see chart on page 2). If second port on lug is unused, fully seat unused setscrew into lug.
9. Repeat 4 – 8 for "LOAD" side insulating boot.
10. Ensure that the pin-and-socket disconnect feature is fully engaged, then align and push both boot halves together until boots are fully seated at the fuseholder.

NOTE: If installing fuse holder without insulating boots, all exposed metal contacts must be properly insulated.

CRIMP INSTALLATION

1. Turn OFF power before removing or installing disconnect fuse kits.
2. **Check to assure O-ring is in place within the "LINE" side of fuseholder housing. See Fig. 1 above.**
3. Install fuse, if applicable. See "FUSE INSTALLATION / REMOVAL" on page 2.
4. Cut "LINE" side insulating boot at proper wire size as highlighted by arrow. **NOTE:** THHN insulation is not rated for use in damp or wet locations. If using wire with THHN insulation, cut boot two (2) sizes smaller than conductor size. Wire range on THHN insulation is #2 - #10.
5. Insert "LINE" side conductor completely through boot, extending out of large open boot end approximately 1".
6. Strip insulation from wire per the strip length chart on page 2.
7. Fully insert "LINE" side conductor(s) into crimp barrel.
8. Crimp connector onto conductor(s) per tool chart on page 2.
9. Repeat 4 – 8 for "LOAD" side insulating boot.
10. Ensure that the pin-and-socket disconnect feature is fully engaged, then align and push both boot halves together until boots are fully seated at the fuseholder.

NOTE: If installing fuse holder without insulating boots, all exposed metal contacts must be properly insulated.

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DISCONNECT / RECONNECT PROCEDURE

1. While holding the “LINE” and “LOAD” insulating boots, separate halves by pulling straight apart. **DO NOT TWIST ASSEMBLY BEFORE PULLING HALVES APART.**
2. To re-connect, align and push both halves together until insulating boots are fully seated at the fuse holder, ensuring that the pin-and-socket disconnect feature is fully engaged.

FUSE INSTALLATION / REMOVAL

NOTE: BEFORE FUSE INSTALLATION OR REMOVAL, TURN OFF POWER AND FOLLOW DISCONNECT PROCEDURE ABOVE.

FUSE INSTALLATION

1. Insert fuse into “LOAD” side of fuse holder.
2. Aligning “LOAD” side fuseholder tabs with “LINE” side openings, push halves together and twist approximately ¼ turn clockwise to fully close. Fuseholder is fully closed when double lines on “LINE” and “LOAD” sides are aligned. See Fig. 2.

Fig. 2: Double lines aligned = fully closed

FUSE REMOVAL

1. While holding the “LINE” and “LOAD” insulating boots, separate halves by pulling straight apart. **DO NOT TWIST ASSEMBLY BEFORE PULLING HALVES APART.**
2. Holding “LOAD” side boot, squeeze the male tabs on the “LINE” side of the fuseholder together.
3. Slightly push the “LOAD” and “LINE” sides of the fuseholder together and twist the “LINE” side counter-clockwise, approximately ¼ turn, until the tabs seat at the end stop.
4. Pull “LINE” side of fuse holder from fuse holder housing.
5. Remove fuse from fuse holders.

STRIP LENGTH, TORQUE, AND CRIMP TOOL CHART

Conductor Size (awg)	Conductor material	SET SCREW		CRIMP				
		Strip Length (in.)	Recommended Torque (in.-lb.)	Strip Length (in.)	Number of conductors	Number of Crimps	Crimp Scale or Die type	Crimp Tools
#14 - #10	Copper or Aluminum	7/8	100	1/2	1 or 2	2 [1&2]	-	IDEAL: 30-425, 30-429, 30-430
#8	Copper or Aluminum	7/8	100	1/2	1	1	#8 copper	IDEAL 88-843
#6	Copper or Aluminum	7/8	100	1/2	1	1	#6 copper	IDEAL 88-843
#4	Copper or Aluminum	7/8	100	1/2	1	1	#4 copper	IDEAL 88-843
#2	Copper or Aluminum	7/8	100	1/2	1	1	#2 copper	IDEAL 88-843
#8	Copper or Aluminum	7/8	100	1/2	2	1	#4 copper	IDEAL: 88-843
#6	Copper or Aluminum	7/8	100	1/2	2	1	#2 copper	IDEAL 88-843
#4	Copper or Aluminum	7/8	100	3/4	2	1	Burndy U26RT	Burndy "Y35" tool
#2	Copper or Aluminum	7/8	100	3/4	2	1	Burndy U27RT	Burndy "Y35" tool

Notes: #1: Insert conductors completely into small diameter of crimp barrel.
#2: Crimp large diameter section first for strain relief, then crimp small diameter second.

IDEAL INDUSTRIES, INC.