ENGINEERING SPECIFICATION

INSTALLATION INSTRUCTION SHEETS

1.0 SCOPE
This specification consists of installation instructions for the Self-Contained Power Connector for 2-wire solid cable with ground applications.

2.0 PURPOSE
To define material number system for the above instructions.

3.0 REFERENCE MATERIAL NUMBERS
See pages 2-3 for the actual instruction sheets. These pages can be used as originals.

4.0 DEFINITIONS
Not applicable.

5.0 PROCEDURES
Place one (1) instruction sheet in the smallest unit container.

6.0 IMPLEMENTATION
JANUARY 31, 2009

COC-1 Self-Contained Power Connector Installation Instructions For 2 Wire Cable with Ground Applications

The 2-circuit-with-ground connectors will splice non-metallic-sheathed cable in the following wire ranges and types:

Self-Contained Connector -
2 Circuit with ground for Solid Wire

Wire Range AWG	Order No.	Optional Hand Tool	Optional Bench Mount Tool	Optional Bench Arbor Press	Housing Color
12-14	19045-1000 (COC-1)	19285-0074	N/A	64006-0200	White

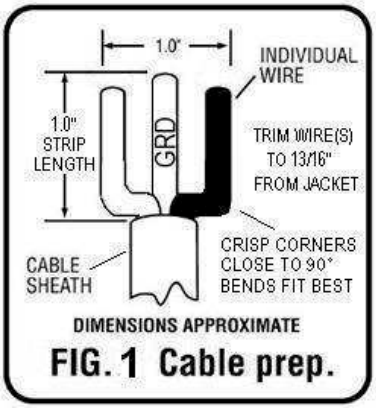
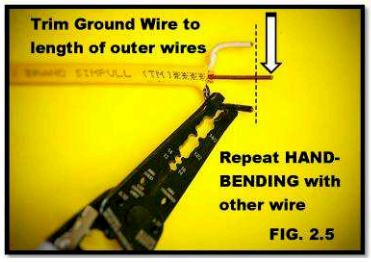


FIG. 1 Cable prep.

Reference Information

UL File Number: E182087,
CSA File Number: LR18689-C53
NEC Article: 550, 551, and 545
HUD Section: 3280.801
Current: 20A,Voltage: 300V

FIG. 2



Installation Procedure:

1. Carefully strip and prepare the wires to the configuration as shown in **Figure 1** using helpful hints shown in photographs of **Figure 2.**
2. Hold the clear strain relief cover with bottom facing upward as shown in **Figure 3.**
3. Lay wire into locator slots, making sure the black wire is placed into the polarization slot as shown in **Figure 3.**
4. Press the cable sheath into the integral strain relief slot as shown in **Figure 3**. Trimming of ground wire and possibly others will be necessary. *Wires must not extend beyond the locators as shown in **Figure 4**!*
5. While holding the strain relief cover, position the housing's hinge posts into the hinge slots and press down until both lock into place as shown in **Figure 4.**
6. Close the strain relief cover and housing by hand**.** Place the connector assembly into Molex tool (preferred) as shown in **Figure 5.** Squeeze the tool until the connector bottoms out and the locking latches engage on both sides. OR alternately, squeeze the top and bottom closed with tongue and groove pliers as shown in **Figure 5.1**. Pliers must be a minimum of 10" long. Squeeze firmly on both sides, squarely across the connector between ribs A and B to ensure wires seat completely into slots.
7. Inspect the connector to ensure the wires have been properly engaged into the housing assembly contacts. A properly terminated wire is fully seated into its proper slots with no significant bow of the cover. *If the wires extend past the insulation stops, the wires must be re-terminated with a NEW CONNECTOR. Once the cover has been closed the connector cannot be re-used. Failure to comply with this procedure may result in the failure of the connector.*
8. Mating and un-mating the completed connector is illustrated in **Figure 6.**

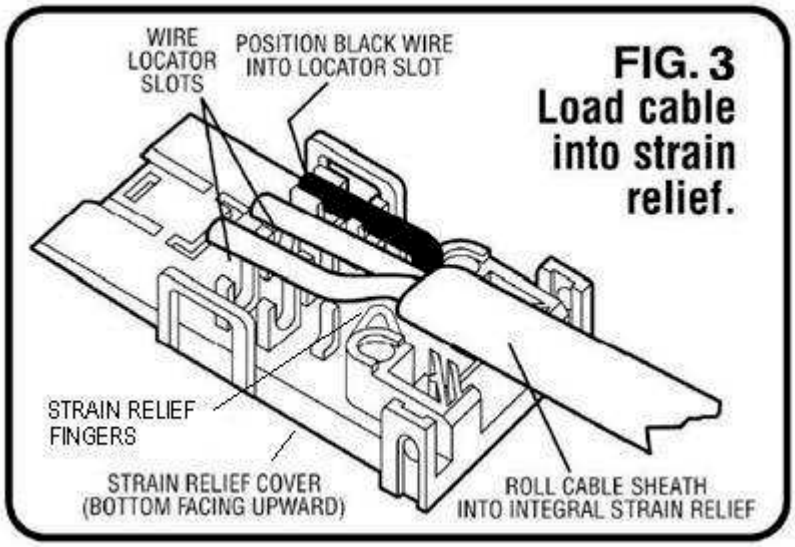


FIG. 3
Load cable into strain relief.

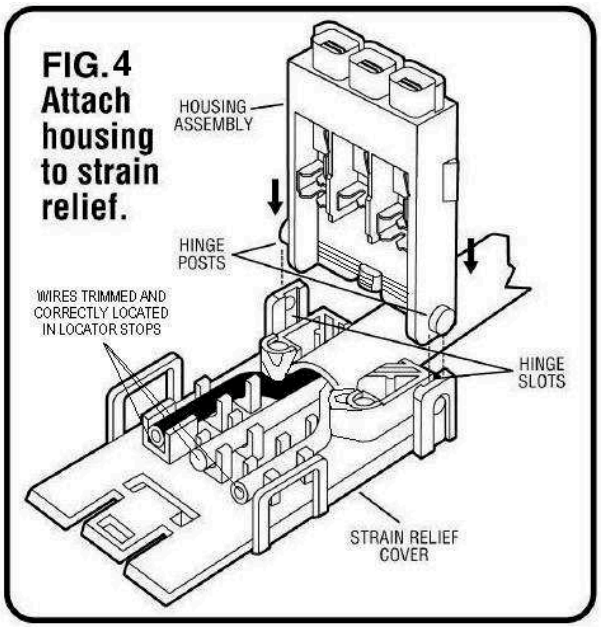


FIG. 4
Attach housing to strain relief.

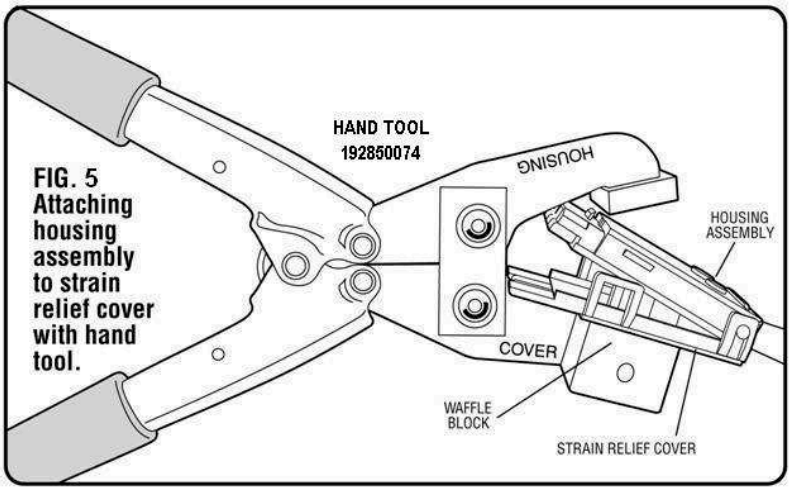


FIG. 5
Attaching housing assembly to strain relief cover with hand tool.

OR

FIG. 5.1 **Alternately, clamp connector with tongue & groove pliers, squeezing squarely and firmly between ribs A and B.**

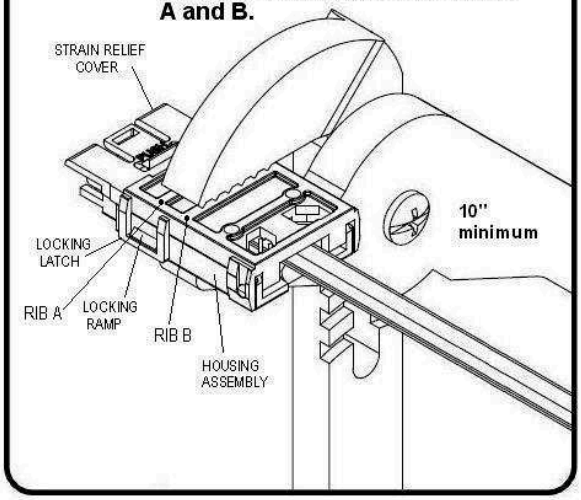
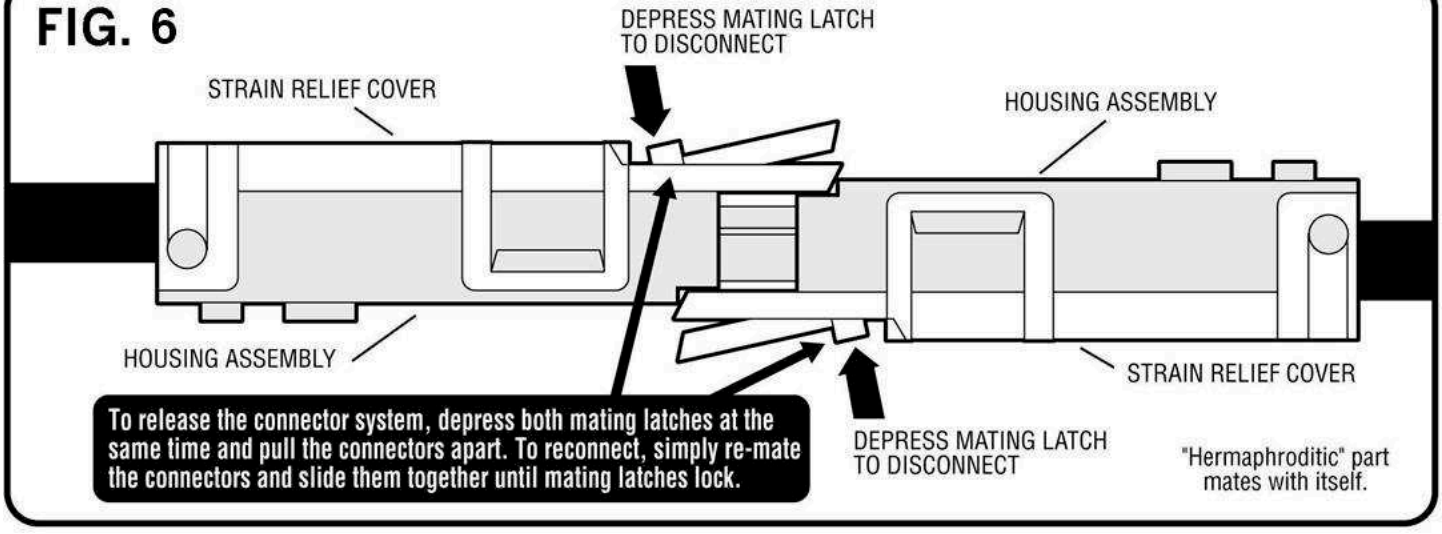
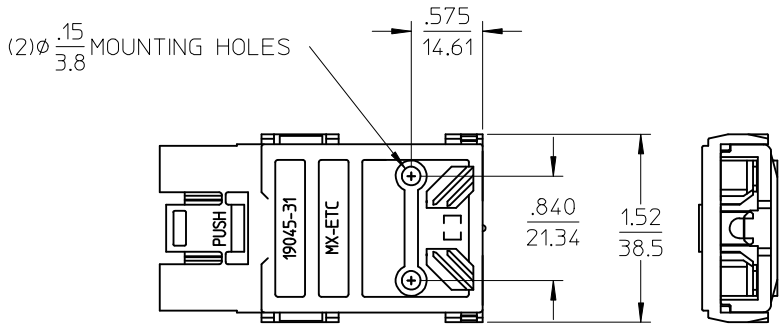
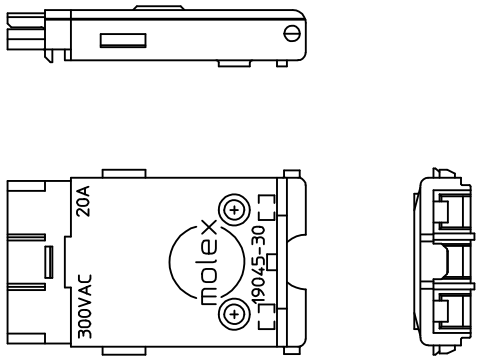


FIG. 6

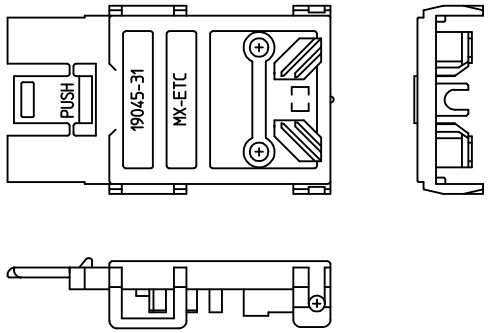




ASSEMBLED VIEWS



HOUSING ASSEMBLY
MATERIAL NUMBER 19045-2010, Ⓒ
CONTAINING HOUSING NUMBER 19045-3010



COVER
MATERIAL NUMBER 19045-3110

NOTES:
1. PARTS ARE PACKAGED 50 UNITS PER CONTAINER.
2. REF: UL FILE NO. E182087, CSA FILE NO. LR18689.
Ⓒ 3. PARTS ARE ROHS COMPLIANT.

CHG	DESCRIPTION	REV
SUBASSY P/N EC NO: WNA2009-0564		C
DRWN:ETHRODAHL 2009/05/22		
CH'KD:JMACNEIL 2009/05/22		
APPR: JMACNEIL 2009/05/27		

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .02
1 PLACE	± 0.5	± ---
ANGULAR ±---°		

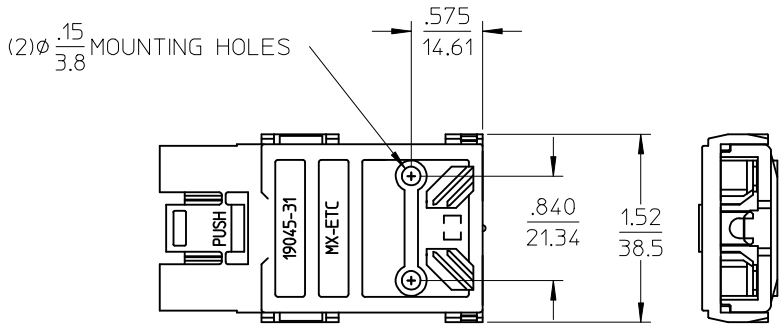
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	IN/MM
SCALE	1:1
DESIGN UNITS	INCH
	THIRD ANGLE PROJECTION
DRAWN BY	DAY
DATE	1997/05/27
CHECKED BY	RDEROSS
DATE	1997/05/27
APPROVED BY	RDEROSS
DATE	1997/05/27
MATERIAL NO.	190451000
SIZE	B

TITLE: CUSTOMER DRAWING COC-1
SC CONNECTOR ASSEMBLY
12-14AWG SOLID 2/C+GRD

MOLEX INCORPORATED

DOCUMENT NO. SD-19045-100
SHEET NO. 1 OF 1



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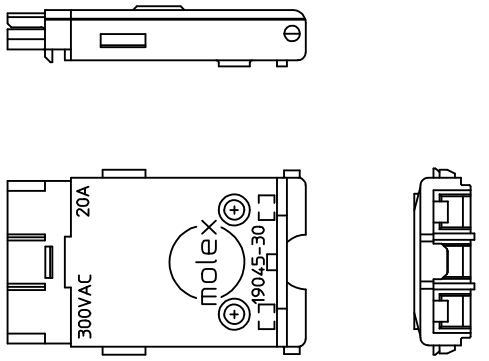

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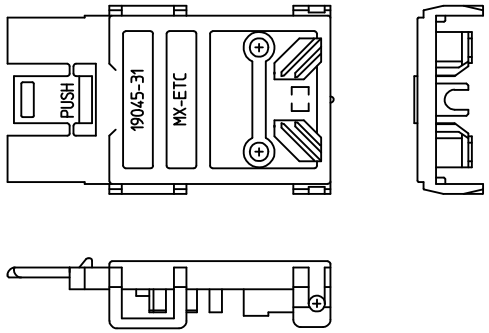
CONTAINING HOUSING NUMBER 19045-3010



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12-14AWG SOLID 2/C+GRD

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SHEET NO. 1 OF 1