



**KILLARK**

**HUBBELL ELECTRICAL PRODUCTS**  
A Division of HUBBELL INCORPORATED (Delaware)  
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# INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

## "EY-50", "EY-75" & "EY-100" SERIES SEALING FITTINGS for Hazardous Locations Class I, GRPs B,C,D; Class II, GRPs E,F,G; Class III

**CAUTION:** Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is De-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

**Important:** Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Sealing fittings are installed in conduit runs to minimize the passage of gases, vapors or flames from one portion of the electrical installation to another through the conduit; also, to prevent precompression or "pressure-piling" of vapors or gases in conduit systems.

**NOTE:** Seals should be made only by experienced, careful persons in strict compliance with these instructions. Even slight variations can cause serious field problems. Series EY sealing fittings are to be installed **only** in vertical conduit runs.

### DIRECTIONS FOR INSTALLATION

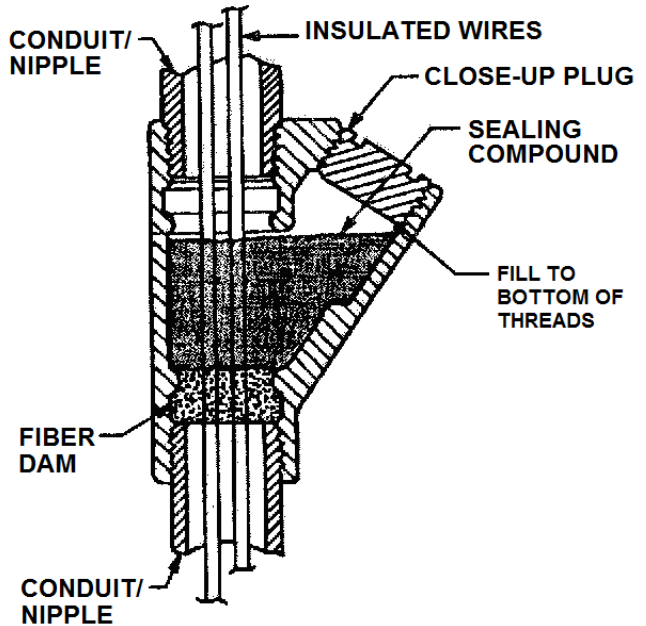
1. Using the drawing on this sheet as a guide, install the sealing fitting into the conduit system. Refer to the National Electrical Code, Article 501.5 & 502.5 for the regulations covering your specific application.

2. Pull the conductors (wires) through the conduit system.

3. Using Killark type "PF" packing fiber, build a dam at the lower conduit hub. Use a wooden stick to force the wires apart and pack the fiber tightly around all wires. The wires must not touch the fitting walls. The dam must be tight and strong enough to keep the liquid sealing compound from leaking out before it sets up. The completed dam should be even with the conduit stop, as shown.

4. Use Killark type "SC"; Crouse-Hinds type "CHICO", "CHICO A"; Appleton type "APELCO", "KWIKO" or "KWIKO A" sealing compounds with these fittings. (for Crouse-Hinds and Appleton compounds, read and follow the mixing instructions provided by the mfg.) The sealing compound is mixed with water at the rate of 3.3 parts of compound to 1 part water by volume (4 to 1 by weight). Drawing chart shows the approximate amount of compound required for your fitting. Use a clean mixing vessel for each batch. Sprinkle the sealing compound into the water while stirring, until a thick paste is formed. Continue mixing for AT LEAST THREE MINUTES.

### INSTALLATION DRAWING



Conduit Size	Killark Cat. No.	Suitable for Hazardous Locations	Approx. Seal. Comp. req.	Approx. Fiber req.	Close-up Plug size
1/2 "	EY-50	Cl. I, Gr. B,C & D. Cl. 2, Gr. EFG	1 oz	1/32 oz	3/4 "
3/4 "	EY-75	Cl. I, Gr. B,C & D. Cl. 2, Gr. EFG	2 oz	1/16 oz	1 "
1 "	EY-100	Cl. I, Gr. B,C & D. Cl. 2, Gr. EFG	4 oz	1/8 oz	1 1/4 "

Standard Material = aluminum. For Optional Material: add the following suffixes to the standard catalog number; "-T" = aluminum w/ nipple; "M" = iron; "TM" = iron w/ nipple

The proper consistency is just fluid enough to pour SLOWLY, like thick gravy, from an inverted container, NOT WATERY. Do not mix more material than can be poured in 15 minutes.

Discard any material that becomes too stiff to use. Never attempt to restore workability by stirring in more water.

After the compound is mixed, slowly pour it into the sealing fitting. Fill to the bottom of the threads (as shown in drawing). Make sure that the wires are well separated, so the compound completely surrounds them. Pour slowly to avoid trapping air bubbles in the compound. Immediately wipe any spilled compound from conduits and threads, and close the fitting with the close-up plug, making sure it is tight.

**CAUTION:** Sealing compound to be mixed ONLY at temperature above 40°F/4°C and ONLY poured into fittings that have been brought to a temperature above 40°F/4°C. Seals must NOT be exposed to temperatures below 40°F/4°C for at least 72 hours. Compound MUST be allowed 72 hours to cure to full strength before energizing system.

The maximum number of wires (A & B) that can be sealed in a fitting are as follows:

Size AWG or KCmll	1/2" Seal (Qty/NPT Size)		3/4" Seal (Qty/NPT Size)		1" Seal (Qty/NPT Size)	
	A	B	A	B	A	B
18	7	11	12	20	20	33
16	6	9	10	16	17	27
14	3	8 (13-3/4")	6	15 (24/1")	10	24
12	3	6 (10-3/4")	5	11 (18/1")	8	18
10	1 (2-3/4")	4 (6-3/4")	4	7 (11/1")	7	11
8	1	2 (3-3/4")	2	4 (5/1")	4	6
6	1	1	1	2 (4/1")	2	4
4	1	1	1	1 (2/1")	1	2
3			1	1	1	2
2			1	1	1	1
1			1	1	1	1
1/0			1		1	1
2/0					1	1
3/0					1	1
4/0					1	

Column A = Types RFH-2, RH, RHH, RHW, THW, TW, XHHW (AWG 14-6), FEPB (AWG 6-2).

Column B = Types FEP, THHN, THWN, TFN, PF, PGF, XHHW (AWG 4-4/0), FEPB (AWG 14-8).

Note: For #18 and #16 size conductors, wire fill is based on maximum 40% fill or less depending on conduit and conductor size per the NEC code. For all other conductor sizes, wire fill is based on maximum 25% fill or less depending on conduit and conductor size per UL Std. 886.