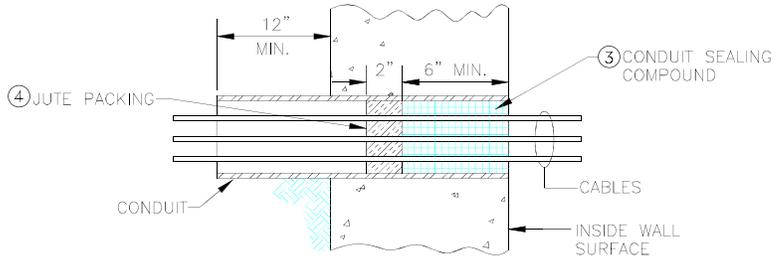


The Company may on behalf of the customer perform the initial conduit/cable sealing requirement at the time of the service cable installation, but ultimately the installation and maintenance is the customer's responsibility.

1- TO SEAL CABLES INSIDE CONDUIT

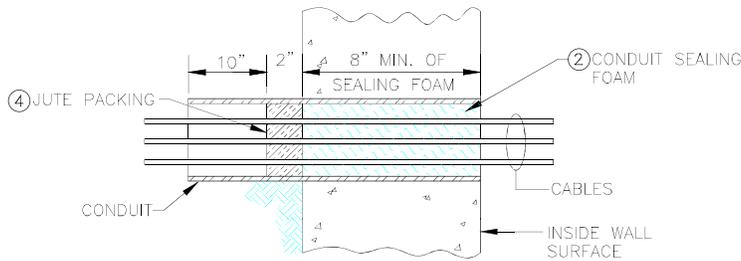


CASE ONE

MASTIC CONDUIT SEALING COMPOUND WITH JUTE PACKING

CASE ONE - MASTIC CONDUIT SEALING COMPOUND WITH JUTE PACKING

Apply untarred, uncoiled jute packing around the outside of and in the spaces between the cables in such a manner as to completely fill the conduit. Use short pieces of this jute packing (2" to 6" long) and pack them tightly to form a plug or backing. Manually insert approved mastic conduit sealing compound (EO-100,023), and make sure that a complete bond is achieved around edges of conduit and cables. Cables shall be kept apart and away from edge of conduit by mastic sealing compound. For service cable installations, an approved quickset sealing compound/hydraulic cement may be used in place of the mastic sealing compound.

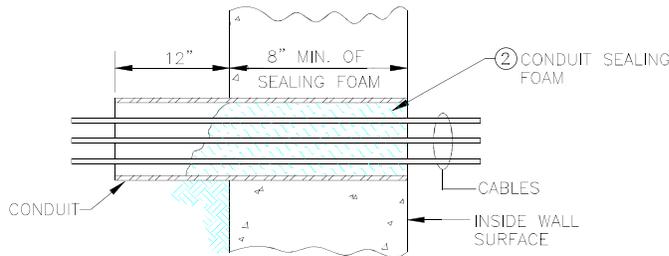


CASE TWO

SPECIAL CONDUIT SEALING FOAM WITH JUTE PACKING

CASE TWO - CONDUIT SEALING FOAM WITH JUTE PACKING

Apply untarred, uncoiled jute packing around the outside of and in the spaces between the cables in such a manner as to completely fill the conduit. Use short pieces of this jute packing (2" to 6" long) to form a jute plug or backing. Insert tip of dispensing tube or cartridge to the edge of the jute plug, inject the approved foam (EO-100,023) as per manufacturer's directions. Foam shall be faced off with the inside wall surface.



CASE THREE

SPECIAL CONDUIT SEALING FOAM

CASE THREE - SPECIAL CONDUIT SEALING FOAM

Application of foam in conduits where local conditions prevent the application of jute packing. These conditions include congested U.G. structures where access to the conduit is impaired by other cables. In these cases conduit may be sealed with the application of only the foam.

Insert the 8" of the dispensing tube or cartridge into the conduit to inject the approved foam (EO-100,023) as per manufacturer's directions. As foam is dispensed and fills the conduit, draw out the dispensing tube. Fill gaps around the cable and conduit without moving or disturbing cable. Foam shall be faced off with the inside wall surface.

METHOD OF SEALING PHASE
GROUPED CABLES AND CONDUITS
FOR SERVICES, MH'S AND VAULTS

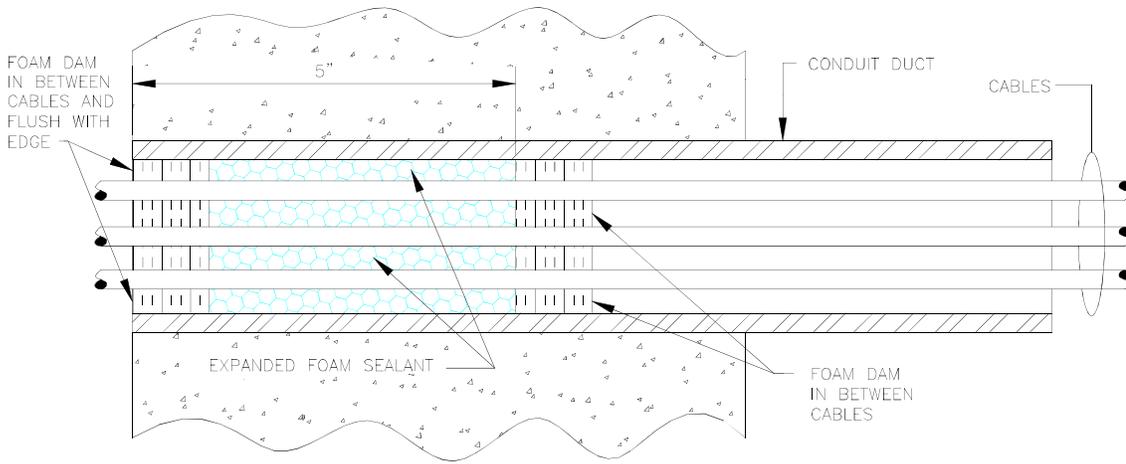
CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DATE 03/24/53
LAST REV. 03.05.19

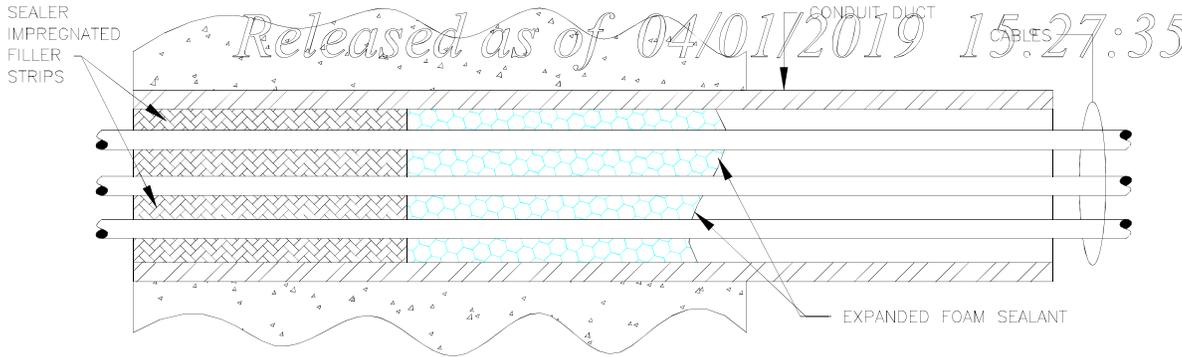
DWG. NO. EO-6217-REV. 14 SH 1 OF 4

NO.	REVISION	PROJ. ENGR	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED	DATE
14	Moved note to top of dwg. Removed same note from Cases 1, 2 & 3. J.D.V. 03.05.19	T. CAMPBELL	3.5.19	W.H.F.	10-6-52	WAM	2-26-53	ANTHONY F. TADDEO	7/5/84
				DISCIPLINE CODE		SCALE		MGR.	DATE



CASE FOUR – FST-250 FOAM SEALANT (CL/STK #631-3381)

Use wire brush to remove all loose material. Clean cable(s) and duct with Type HP cleaning wipe. Roughen the surface with an abrasive such as sandpaper or steel wool. Create a foam dam by wrapping foam strip around cable(s) so that it fills the space between the cable(s) and duct. Cut foam to size as necessary. Using the positioning rod, push the foam 5" into duct. Make sure there are no voids in foam dam to allow sealant to flow through. Wrap the second foam strip around cable (if more than one cable, separate cables with foam strip). Tail end of foam strip should be at top of wrap. Push second foam strip into duct until the edge is flush with the duct entrance. Assemble foam cartridge and application tool (according to instructions). Insert mixing nozzle into top wrap of foam dam so tip extends into space between foam strips. Inject sealant above cable(s) for better coverage. Use desired amount of foam sealant (as per manufacturer's instructions). Rapid injection will produce better mixing. Remove foam cartridge, sealant will expand fully in 2 to 5 minutes.

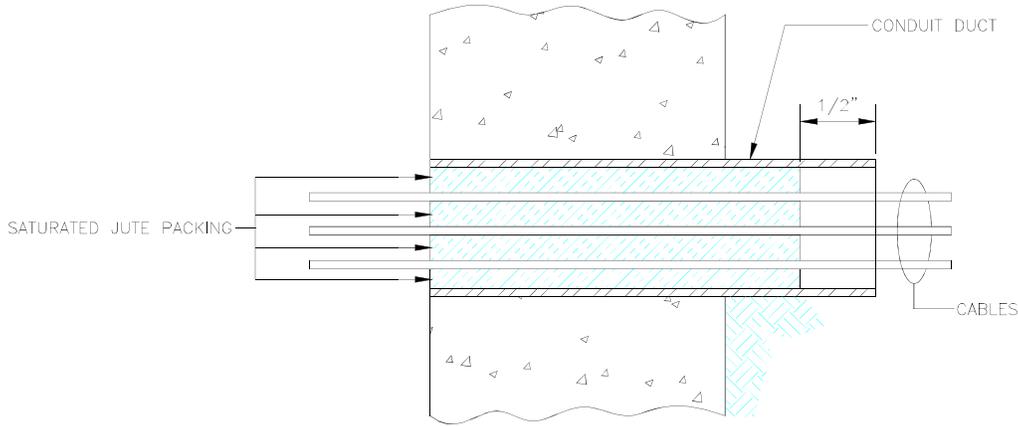


CASE FIVE – HYDROPHILLIC FOAM SEALANT DUCTOLOX 431 (CL/STK #020-0009)
(For use with active water leaks)

All work to be performed wearing protective gloves.
 Pour contents of hardener into resin can, close top and shake to mix both contents well. (45 sec. to 1 min.)
 Open container and pour into mixer bag. Take filler strips and place into mixer bag and soak into mixed contents well until white spots are not visible on the filler strips. Knead mixture fully into filler strips.
 Take filler strips and dip into bucket of water loosen threads up and squeeze to activate expanding sealant.
 Apply filler strips by spreading out and around cable(s) and press into conduit or duct making sure filler strip is packed into conduit or duct well. Hold filler strips in place with your hands inward until it is expanded in place. As product expands it will start to seal cable and duct, hold in place until fully expanded and hardened in place.
 (takes about 4-6hrs to completely cure.)

NOTE:
 If it is an existing installation with an adequate seal, a seal that is less than or equal to 4" from the face of the duct is acceptable. For new installations, the seal must be faced off.

METHOD OF SEALING PHASE GROUPED CABLES AND CONDUITS FOR SERVICES, MH'S AND VAULTS				CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT			
COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED				DATE 03/24/53 LAST REV. 03.05.19	DWG. NO. E0-6217-REV. 14	SH 2 OF 4	
NO. 14	REVISION Updated notes for Cases 4 & 5 JDV. 03.05.19	PROJ. ENGR. T. CAMPBELL	DATE 3.5.19	DRAWN BY W.H.F. DISCIPLINE CODE	DATE 10-6-52	CHECKED BY WAM SCALE	DATE 2-26-53
APPROVED ANTHONY F. TADDEO MGR.						DATE 7/5/84	



CASE SIX – FST FOAM SEALANT WITH JUTE (CL/STK #631-1609)
 (MAY BE USED WITH ACTIVE WATER LEAKS)

Use wire brush to remove all loose material. Clean cable(s) and duct with HP Cleaning Wipe. Roughen the surface with an abrasive such as sandpaper or steel wool. Measure jute by loosely wrapping around cables to fill 2-3 inches of conduit. Place jute in ziplock bag. While wearing protective gloves, assemble foam cartridge and application tool (according to manufacturer's instructions). Insert the mix nozzle into ziplock bag and inject desired amount of foam sealant (as per manufacturer's instructions). Knead bag vigorously for 10-15 seconds so that foam is evenly saturated. Wrap jute around cable and insert into conduit leaving 1/2" gap between jute and end of cable. Sealant will fully expand in 2 to 5 minutes.

NOTE:

If it is an existing installation with an adequate seal, a seal that is less than or equal to 4" from the face of the duct is acceptable. For new installations, the seal must be faced off.

Released as of 04/01/2019 15:29:26

CASE SEVEN – MECHANICAL DUCT SEAL

Mechanical duct seals as approved in E0-100,023 shall be installed per manufacturer's instructions.

METHOD OF SEALING PHASE
 GROUPED CABLES AND CONDUITS
 FOR SERVICES, MH'S AND VAULTS

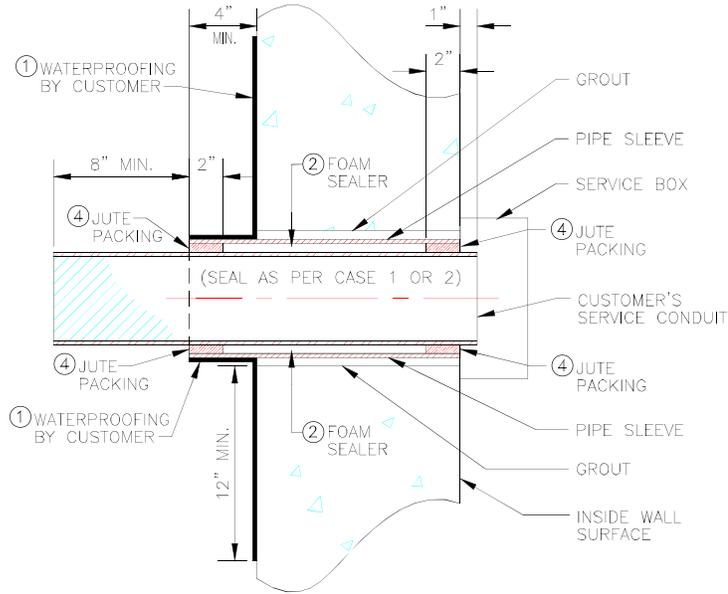
CONSOLIDATED EDISON COMPANY OF N.Y., INC.
 DISTRIBUTION ENGINEERING DEPT

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DATE 03/24/53 DWG. NO. E0-6217-C REV. 14 SH 3 OF 4
 LAST REV. 03.05.19

NO.	REVISION	PROJ. ENGR	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED	DATE
14	Added cases 6&7 to dwg. JDV. 03.05.19	T. CAMPBELL	3.5.19	W.H.F.	10-8-52	WAM	2-26-53	ANTHONY F. TADDEO	7/5/84
				DISCIPLINE CODE		SCALE		MGR.	DATE

Size of Service Conduit	Size of Sleeve
2"	4"
3"	6"
4"	6"
5"	8"



2- TO SEAL SERVICE CONDUIT IN SLEEVE (BY CUSTOMER)

Apply untarred, unoiled jute packing between conduit and sleeve in such a manner as to completely fill the space. Insert approved conduit sealing foam material as noted on case 2 above and make sure that a complete bond is achieved between conduit and sleeve.

3- TO SLEEVE IN WALL (BY CUSTOMER)

The grout for sealing the sleeve in the wall, shall be a mixture of Portland cement and 3 parts of clean sand with a minimum of water. The sleeve shall be free from mill scale, rust, grease or other defects. Care should be taken to have grout in complete contact with the entire surface of the sleeve passing through the wall.

4- TO SEAL EMPTY CONDUITS

When sealing empty conduits in manholes, vaults or service boxes, first prepare jute plugs at least 2" deep and insert them tightly in conduit or service conduit. Apply approved conduit sealing material against the jute plugs as shown in case 1 or 2. Molded plastic plugs (E0-10864-B) and approved mechanical duct seal (see E0-100023) are also acceptable.

5- WATERPROOFING (BY CUSTOMER)

The waterproofing shall be applied by the customer to form a continuous membrane extending from the end of the sleeve to a point on the wall at least 12" beyond the grout line.

REFERENCE SPECS.:

- Sealing of service conduits, entrance & bus openings in elect. distr. structs.-----E0-1100
- Molded plastic plug for conduits-----E0-10864-D
- Procedure for moving energized underground cables and joints-----E0-10130
- Twisted jute packing-----E0-3017
- Purchase recommendation for conduit sealing compounds-----E0-100023

NOTE:

Where the customer installs the service conduit, the wall sleeve may be omitted. However, if the wall sleeve is omitted, the service conduit shall be grouted in the wall and waterproofed in the same manner as indicated for the wall sleeve. Also, the service conduit must extend to a min. of 1" beyond the property line. The customer is responsible for sealing any leaks which occur through the customer's sleeve and/ or service conduit.

Bill of Material		
Description	Quantity	Cls./Stk. No.
5/24" Long Foam Tube	10/Pkg.	631-3290
4 Jute	1 Lb.	401-0013
3 Conduit Seal Material	5 Lbs.	631-0072
2 Foam Sealer	Unit	631-1293
1 Quickset Sealing Compound	1 Gal.	000-0612

METHOD OF SEALING PHASE
GROUPED CABLES AND CONDUITS
FOR SERVICES, MH'S AND VAULTS

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DATE 03/24/53 DWG. NO. E0-6217-REV. 14 SH 4 OF 4
LAST REV. 03.05.19

NO.	REVISION	PROJ. ENGR.	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED	DATE
14	Added case 6&7 to sht. 3 of 4 Changed sht. 3 to sht. 4	T. CAMPBELL	3.5.19	W.H.F.	10-6-52	WAM	2-26-53	ANTHONY F. TADDEO	7/5/84
	JDV.		03.05.19					MGR.	DATE