

# INSTALLATION PROCEDURE FOR POLYETHYLENE ENCASEMENT

**SCOPE:** Installation Procedure for Polyethylene encasement to be applied to underground installations of ductile-iron pipe and for fittings, valves, and other appurtenances to ductile-iron pipe systems.

**INSTALLATION:** Polyethylene encasement should be installed by trained personnel experienced in the proper application of the encasement as described in AWWA Standard C105 “Polyethylene Encasement for Ductile-Iron Pipe Systems”.

## STEP 1

Remove lumps of clay, mud, dirt, cinders, etc., on the surface of the pipe. Cut polyethylene tube two (2) feet longer than the pipe section. Slip the polyethylene tube around, centering it to provide a 12inch overlap on each adjacent pipe section and bunching it lengthwise until it clears the pipe ends as shown.



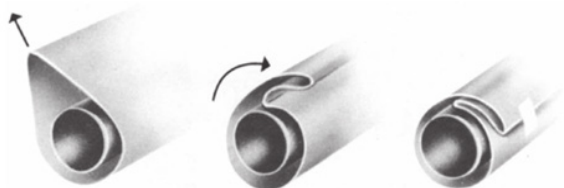
## STEP 2

Push back the overhanging tube ends until they clear the pipe ends.



## STEP 3

Take up the slack in the tube to make up a snug but not tight fit. Fold the excess back over the top of the pipe, securing the fold at the quarter points along the length of the pipe.



## STEP 4

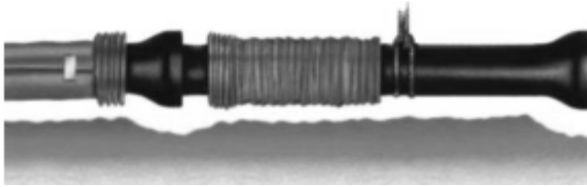
Secure the fold with polyethylene compatible adhesive tape at several locations along the pipe barrel.



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## STEP 5

Dig bell holes at joint locations, lower pipe into trench and make up joint.



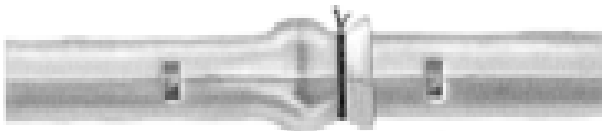
## STEP 6

Pull the polyethylene tube end of the previously installed pipe over the new pipe and secure with the tie strap from the preceding pipe bell.



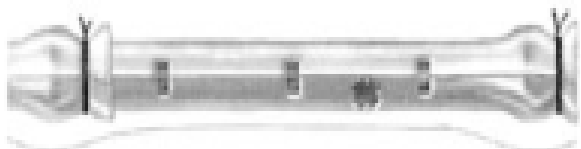
## STEP 7

Overlap the secured tube end of the new pipe section. Secure the new tube end in place with the spigot end tie strap.



## STEP 8

Repair all rips, tears, or other tube damage with suitable adhesive tape.



## STEP 9

Backfill the trench according to specifications, being careful not to damage the polyethylene while tamping around pipe. Backfill should not contain material that might damage the polyethylene.

