INSTALLATION OF CMP/CMX & CMP/INDOOR OUTDOOR* RATED CABLES IN CONDUIT

Superior Essex CMP/CMX and CMP/Indoor Outdoor* rated copper cables are appropriate to use in the following scenarios:

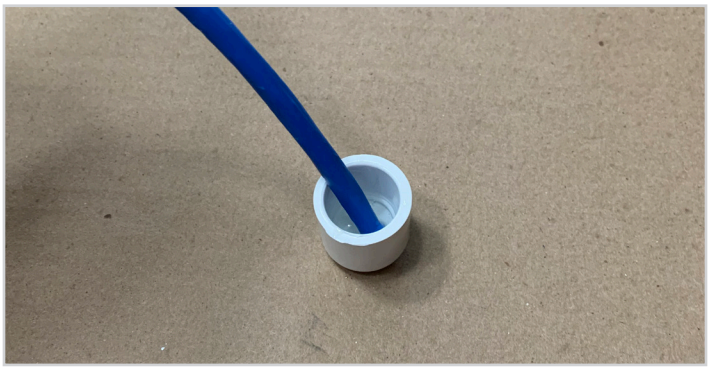
- plenum-rated spaces,
- conduit in the first-floor slab-on-grade,
- underground conduit (direct burial not allowed),
- conduit mounted on the building exterior, and
- conduit installed on a roof.

These cables have a PVDF, FEP, or similar jacket material approved by Superior Essex that is highly impervious to water penetration through the jacket. However, since the cable is not gel-filled, water can get into the end of the cable, especially during installation.

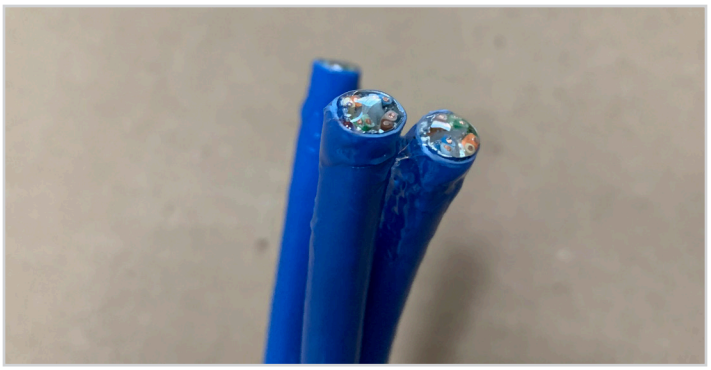
When installing the cable in one of the above-mentioned appropriate conduit applications, the most important considerations are to be sure that the conduit is dry and that the end of the cable is sealed to prevent water intrusion through the end of the cable during installation. Use a conduit swab immediately prior to installing the cable to ensure the conduit is dry. After swabbing the conduit, seal the end of the cable(s). This can be accomplished using several different methods:

a. Seal the end of the cable with a quick-setting epoxy or silicone sealant. See images below.

   i. Fill a small container approximately ½" deep with epoxy and place the cable end inside for 20 to 30 seconds. This allows the epoxy to encapsulate the cable and conductors. More than one cable can be prepared at once as the epoxy will harden quickly once activated.

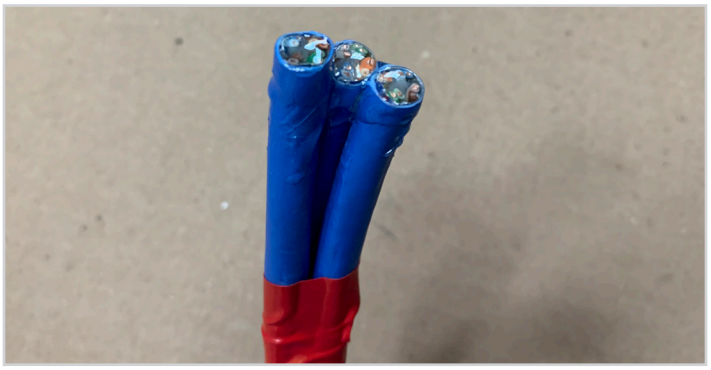


ii. Remove the cable and place it on something so that the end is not touching anything for 5 minutes until the epoxy cures.



iii. Allow the epoxy to fully cure and harden.

iv. After it has dried, the cable may be installed in a normal manner in the conduit.



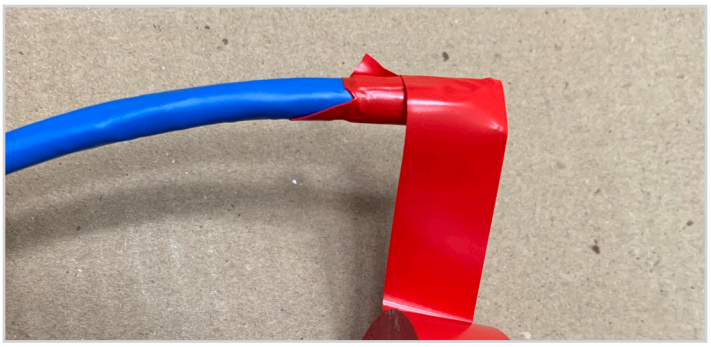
v. To prepare the cable for termination, remove enough of the cable end to ensure no sealant is present (approximately 3 inches).

b. Seal the end of the cable using electrical tape. See images below.

i. Place tape across the end of the cable and pinch tape edges to seal.

ii. Place another piece of tape across the top in the opposite direction and seal the tape edges.

iii. Wrap tape several times around the circumference of the cable over the first two pieces of tape to prevent the tape from snagging and potentially pulling loose during installation.



c. Use a combination of the two methods above if you suspect the conduit contains standing water.

The cable is then ready for standard termination based on the connectivity manufacturer's instructions. When present, the shield and drain wire will also require bonding and grounding.

Please note that special warranty policies apply. See details at
www.superioressexcommunications.com/warranties-policies/

*This copper cable is not intended as a substitute for Outside Plant (OSP) cables nor for direct burial.