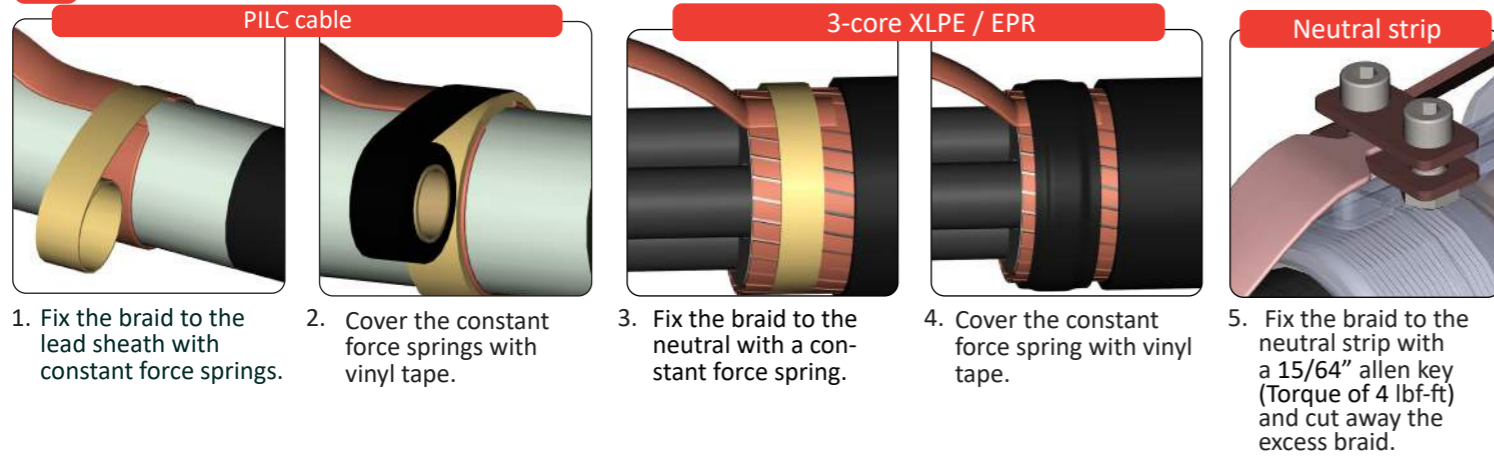
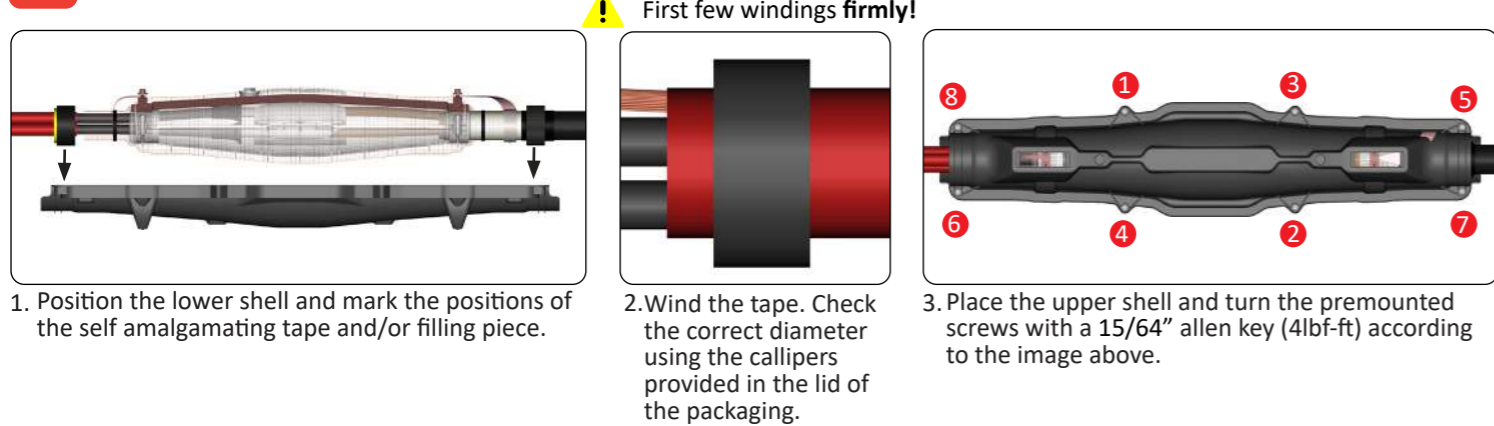


5 Fitting the neutral



⚠ The outside of the inner shell must be dust free.

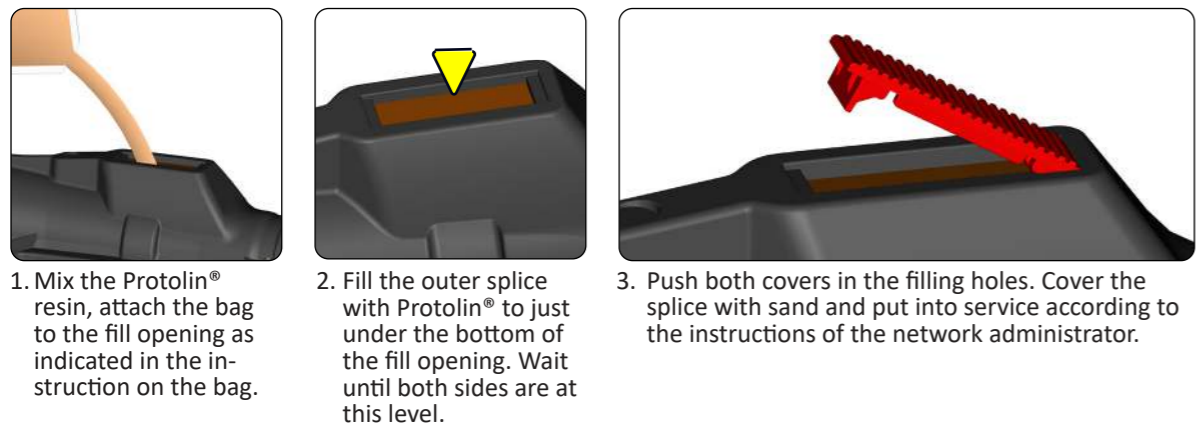
6 Assembly of outer splice



⚠ First few windings firmly!

7 Filling the outer splice with Protolin®

⚠ Support the splice and cables with sand.



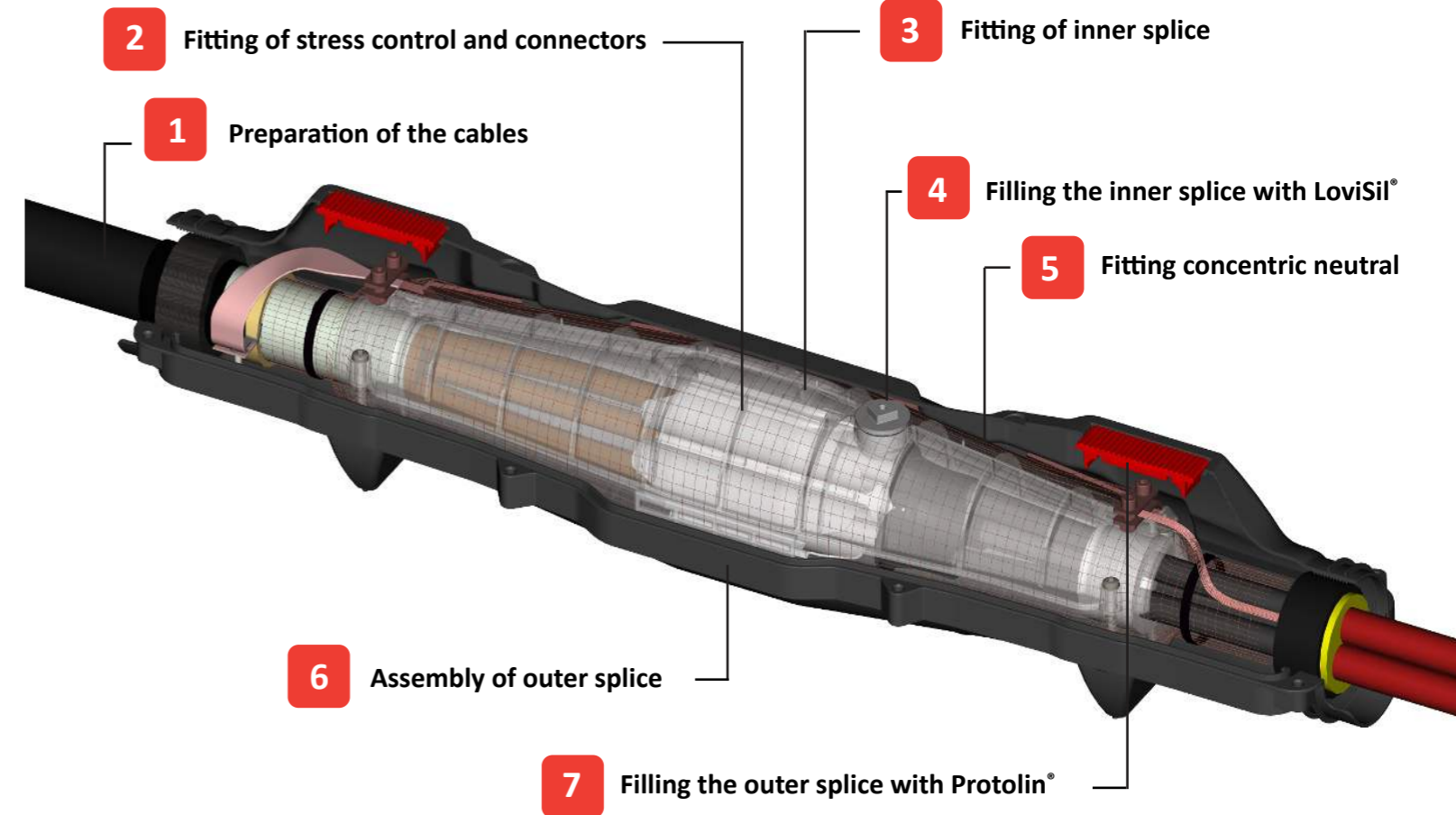
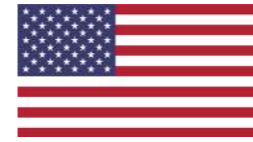
LoviSil® M-series

Installation Manual



3x1 & 1x3 - core XLPE/EPR
3 - core PILC

Cross-section: 1/0 AWG to 600kcmil
 $U_{max} = 15kV$



General remarks

⚠ Follow any **safety instructions** issued by the network administrator and/or your employer!

⚠ Make sure the connection stays **dry and clean** all through the assembly!

⚠ Note the **correct dimensions** as mentioned in this instruction when installing the splice!

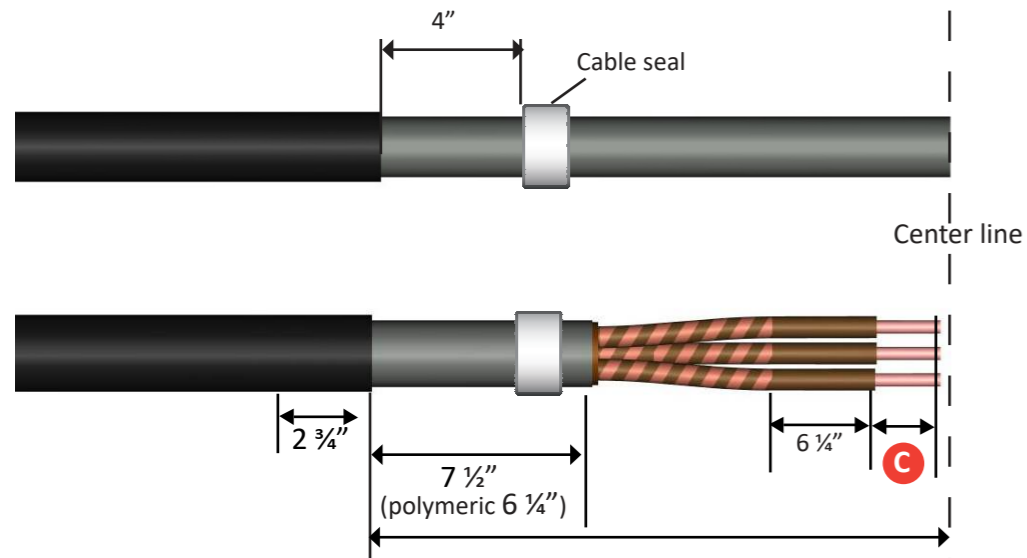
⚠ This instruction is a guideline for **trained and certified splicers**. Knowledge of medium voltage technology and experience in cable preparation should be present!

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1 Preparation of the cables

PILC

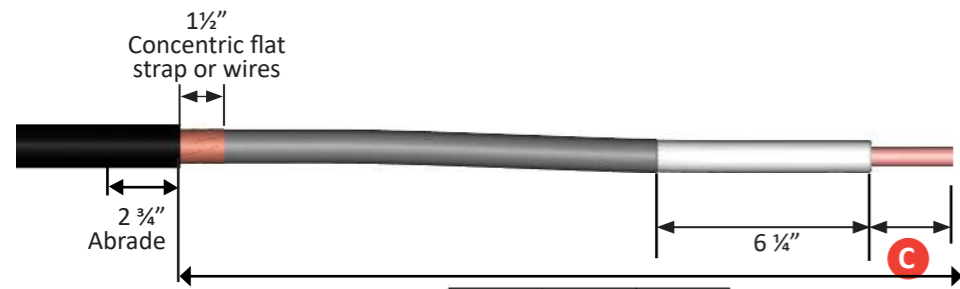
Slide the cable seal on the cable **before cutting and removing the lead jacket**. Use Lovink silicon paste as a lubricant.



	M75	M85	M105
Organic outer sheath	18	19 7/8	25
Polymeric outer sheath	16 1/2	18 1/4	23 3/8

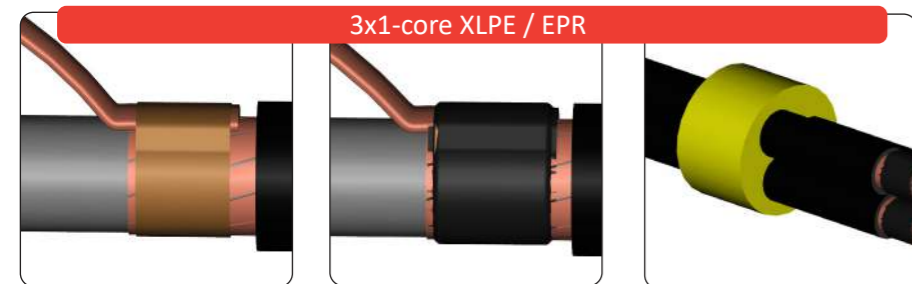
XLPE / EPR S(A)WA

Strip the cable to the required dimensions, then slide the cable seal into position using the Lovink silicon paste as lubricant.

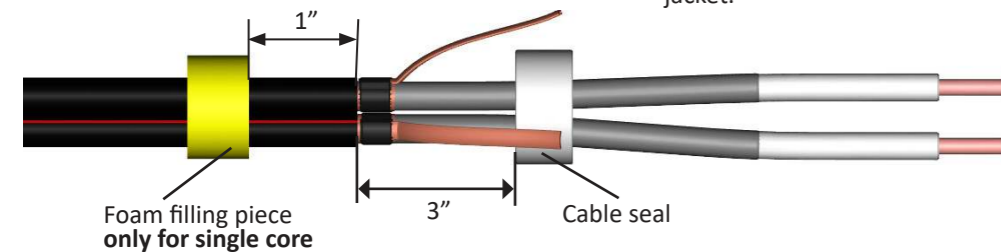


These measurements are to be used for single-core, 3-core or 3 single-core cables.

	M75	M85	M105
	16 1/2	18 1/4	23 3/8



- Fix the braid to the neutral with a constant force spring.
- Cover the constant force spring with vinyl tape.
- Only for 3x1-core cables: Put the three cables together and place the foam filler piece on the cable jacket.



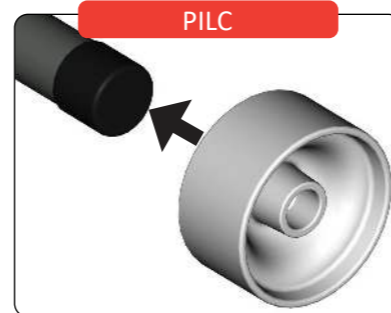
Dimensions connectors

With blocked connectors:
1/2 connector + 1/8"

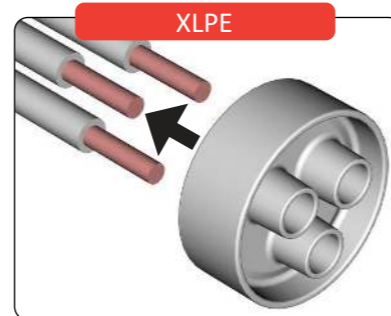
Without blocked connectors:
1/2 connector + 1/4"

Always abrade polymeric jacket (2 3/4") and lead jacket (7 1/2").

Always use wax twine to tie down paper and shield cutbacks.



De-burr any sharp conductor/jacket edges and mask with vinyl tape to prevent damage when applying the cable seal

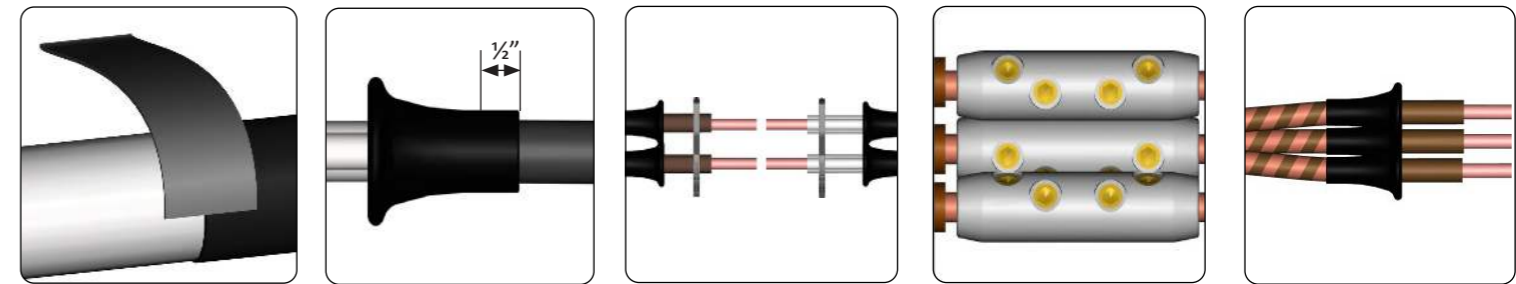


If necessary, make a **crossing** first before cutting the cables!



Position the stress cones with a well lubricated push-on-applicator using only Lovink silicon paste.

2 Fitting of field control and connectors

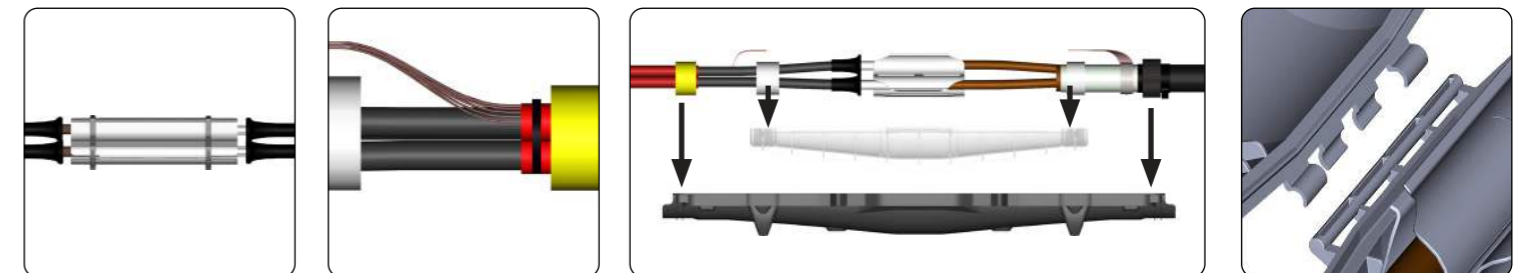


- In the case of EPR or PILC cables, apply void filling tape over the interface between insulation and semicon cut back.
- Slide the stress cones 1/2" over the end of the semicon cut back or tape layer.
- Place the two spacer rings on both cables.
- Fit the connectors according to the specifications of the supplier.
- First clean the core insulation and then the stress cones with a clean Lovink wet cleaning tissue.

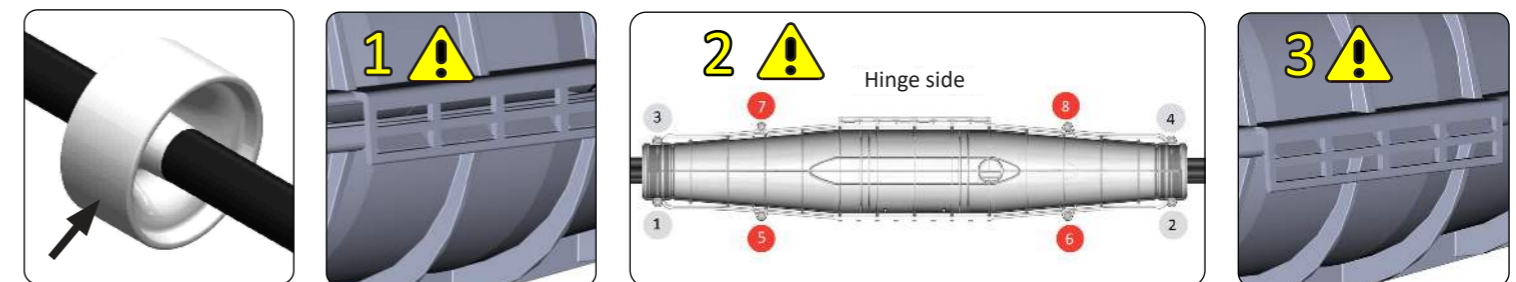
Bolts to be tightened on flat side of sector conductor.

3 Fitting of inner splice

- Before positioning the tube set, **clean the connection** with a clean Lovink wet cleaning tissue.
- Clean all surplus silicon paste from cable surfaces.



- Fit the 3 tubes over the connectors and into the two spacers. Now centralize the assembly over the connectors.
- For 3 X single core cables - place a plastic cable tie around the cables sheaths.
- Use the inner shell to gauge and reposition the cable seals. Offer up the outer shell to determine the position of the foam filler pieces (**Only for 3 x single core cables**).
- Fit the upper shell to the lower shell.



- Apply Lovink silicon paste on the outer contour of the cable seals.
- Click the upper shell partly on the lower shell.
- Turn all screws with a allen key according to the image above (4lbf-ft).
- Check if the shells are fully locked and snapped shut.**

4 Filling the inner splice with LoviSil®



- Position the LoviSil® bag on the fill opening as indicated in the instruction on the bag.
- Hold the spout firmly on the fill opening.
- Fill the inner splice with LoviSil® to the level between MIN and MAX.
- Tighten the plug with a 3/4" wrench.