2800131-A

CELLFLEX® Coaxial Cable Connectors

Installation Instruction

2800131-A (Replacement for 2800086)
LCF/UCF (L) 78-50 Cables
OMNI FIT™ D01 Connectors

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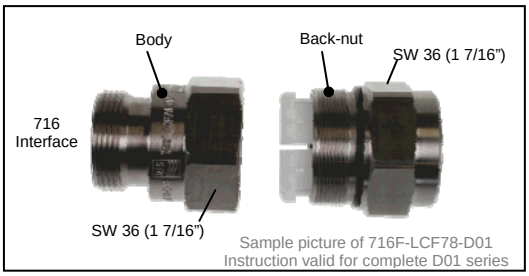
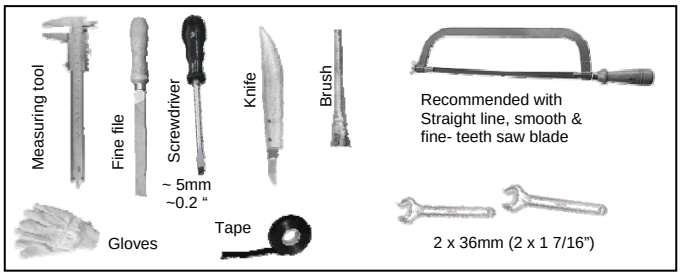


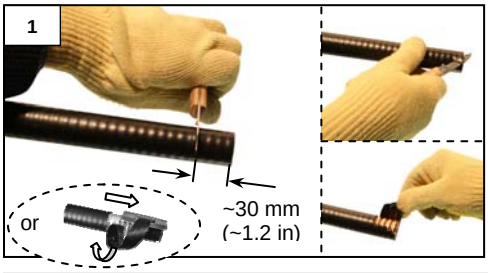


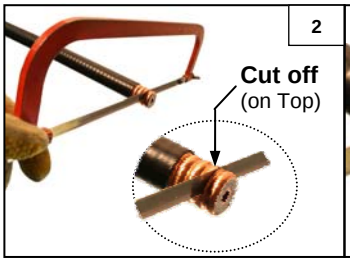
Additionally recommended

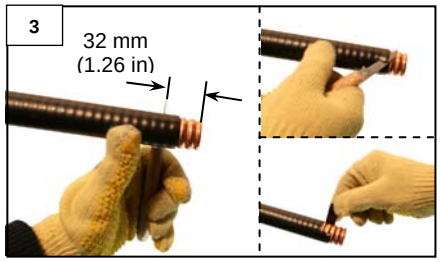
JSTRIP-78-2

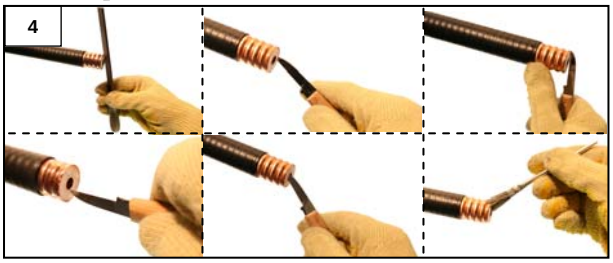
manual method

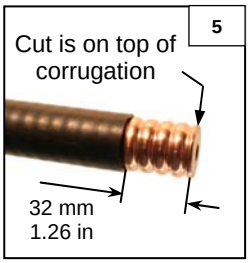
Safety precaution: **Sharp blade => Protective gloves required !**

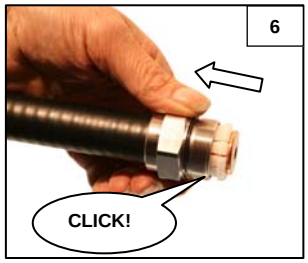


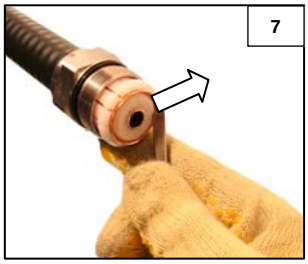


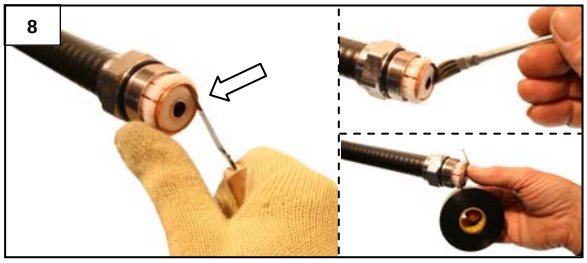


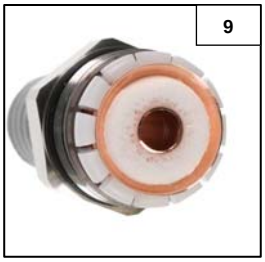


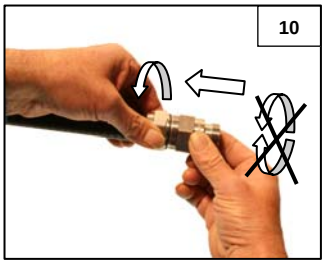


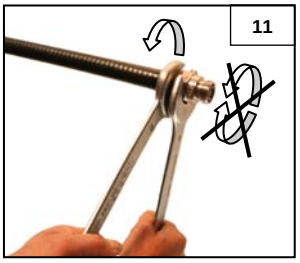












Manual installation method with standard hand tools

Straighten the cleaned cable front part in a length of min. 200 mm / 8 in. Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Cut and remove the jacket in the length as shown.
   Do not damage the outer conductor (it is recommended to use the stripping tool JSTRIP-78-2).
2. Cut off the cable on top of a corrugation valley in a right angle to cable axis using a fine toothed hacksaw.
   Alternatively: use the plastic cutting guide TRIM-CG-78.
3. Remove the jacket to the dimension shown with a knife. Do not damage the outer conductor!
4. Deburr inner- and outer conductor, each from in- and outside. Remove any particles very carefully.
5. Check the trimming dimensions; make sure that the cable has been cut on top of the corrugation.
6. Push back-nut onto the cable until the claws falls into the first corrugation valley as shown.
   Attention: Make sure that the O-Ring slides over the outer conductor without getting pushed out of position.
7. Keep the back-nut in position while slightly running the tip of a screw driver (rounded edges) around the outer conductor to separate the foam and create an outer conductor flare. Flare diameter has to be evenly round and concentrically to the cable axis.
8. The flared area (cone) has to be free of any dielectric material, if necessary bend the dielectric back to the centre. Clean the prepared cable end; remove any particles very carefully with a brush. It is not recommended to use steel or similar hard brushes, because these can deeply press particles inside the dielectric. Adhesive tape can be used additionally for removing the finest particles.
9. **Check the complete preparation. Careful preparation is the key for good VSWR and especially for proper PIM performance!**
10. Push connector front part onto prepared cable end; do never turn the front part! Pay attention to straight position of connector parts while tightening the connector by turning the back-nut only (first by hand).
11. Keep the connector body steady and tighten the back-nut of the connector by use of open end wrenches. Tighten properly to mechanical stop (no visible gap between body and back-nut).

Keep the interface of the connector clean!

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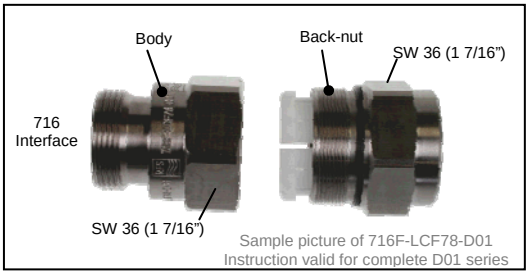
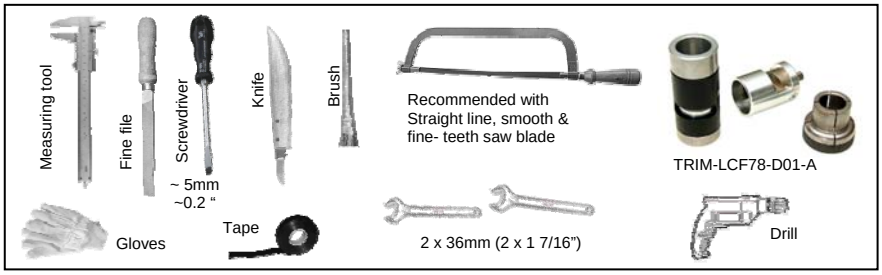
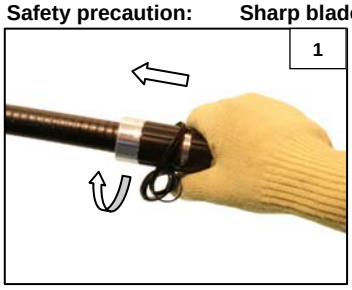
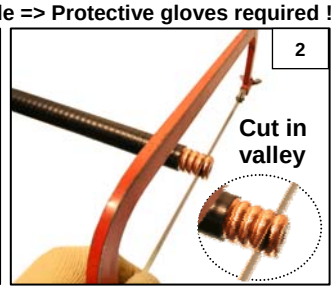


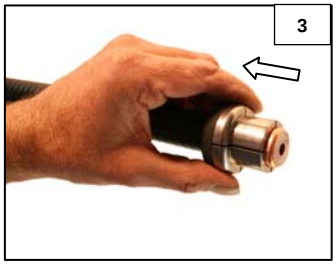


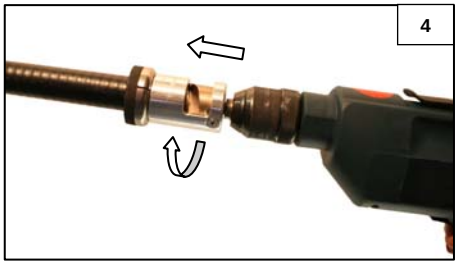
Automated trimming tool

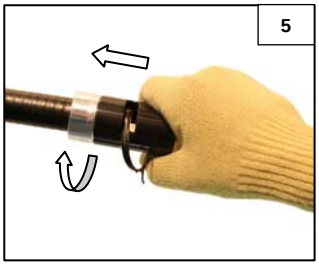
Safety precaution: **Sharp blade => Protective gloves required !**

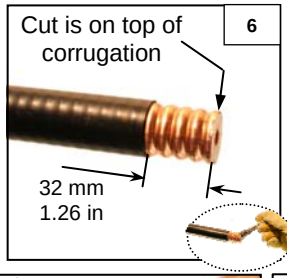


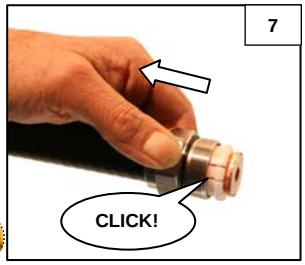


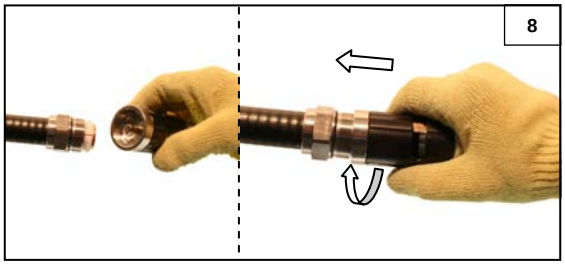


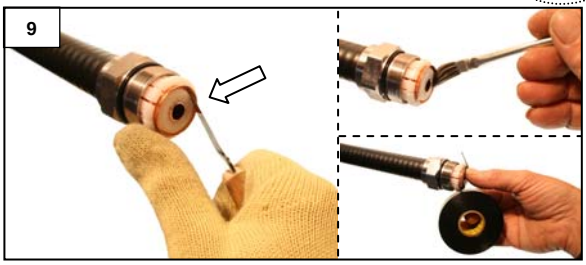


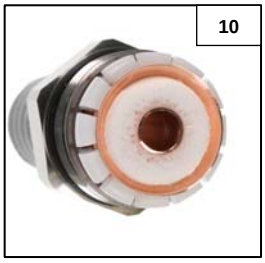


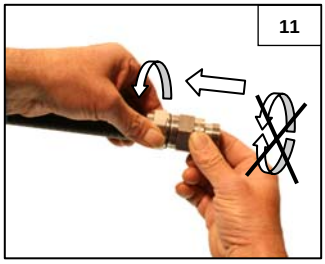


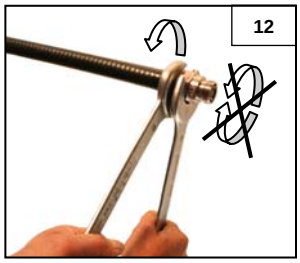












Installation method with Automated trimming tool

Straighten the cleaned cable front part in a length of min. 200 mm / 8 in. Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Push the stripping tool onto the cable. Remove a piece of cable jacket by slightly pushing and turning the tool until the tool stops removing jacket.
2. Cut the cable with a fine toothed hacksaw in a corrugation valley.
3. Push the tool guide onto the cable until it fits into the first corrugation valley as shown.
4. Carefully press the Automated trimming tool over the tool guide and strip the cable by turning clockwise with medium speed (approx. 300 rpm) until mechanical stop.
5. Again push the stripping tool onto the cable and repeat the jacket stripping operation described at the first step.
6. Check the stripping dimensions. Clean the prepared cable end, remove any particles very carefully.
7. Push the back-nut of the connector onto cable until claws falls into the first corrugation valley as shown.
   Attention: Make sure that the O-Ring slides over the outer conductor without getting pushed out of position.
8. Use the flaring tool (opposite end of the jacket stripping tool), press against the prepared cable end (connector back-nut) and rotate several times to slightly flare the outer conductor.
9. The flared area (cone) has to be free of any dielectric material, if necessary bend the dielectric back to the centre. Clean the prepared cable end; remove any particles very carefully with a brush. It is not recommended to use steel or similar hard brushes, because these can deeply press particles inside the dielectric. Adhesive tape can be used additionally for removing the finest particles.
10. **Check the complete preparation. Careful preparation is the key for good VSWR and especially for proper PIM performance!**
11. Push connector front part onto prepared cable end, do never turn the front part! Pay attention to straight position of connector parts while tightening the connector by turning the back-nut only (first by hand).
12. Keep the connector body steady and tighten the back-nut of the connector by use of open end wrenches. Tighten properly to mechanical stop (no visible gap between body and back-nut).

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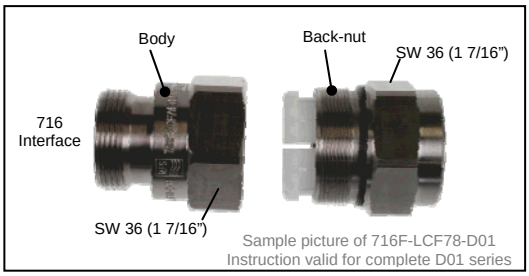
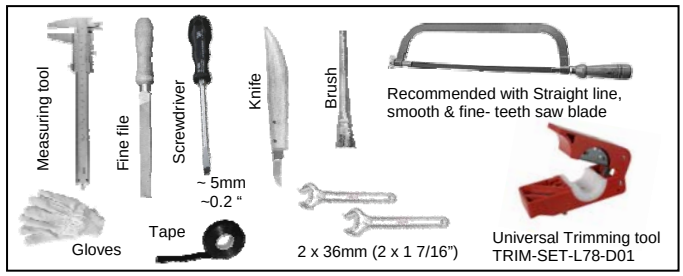


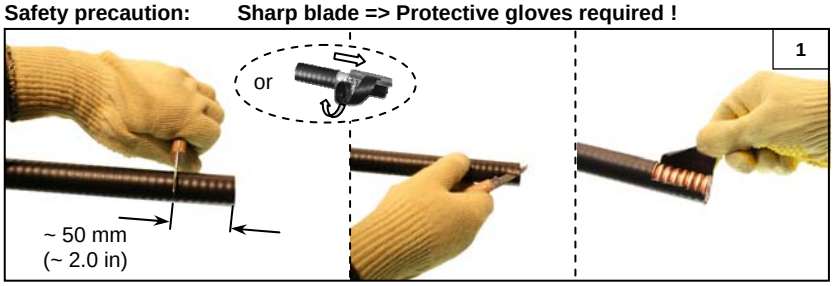


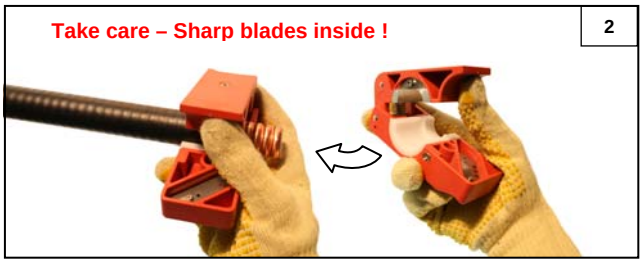
Additionally recommended

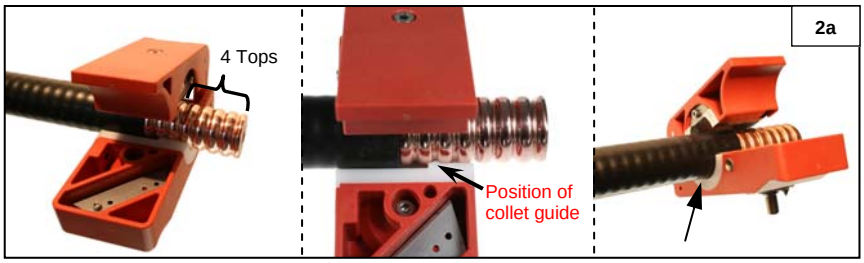
JSTRIP-78-2

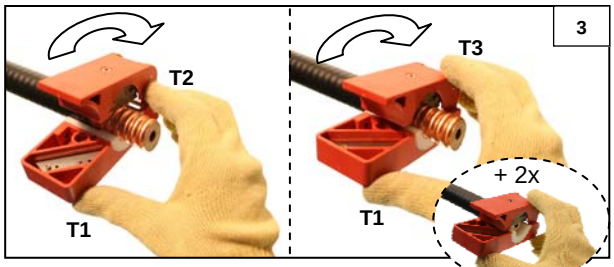
Trimming tool method

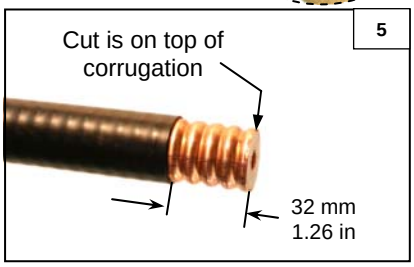
Safety precaution: **Sharp blade => Protective gloves required !**

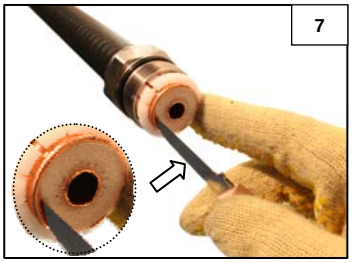


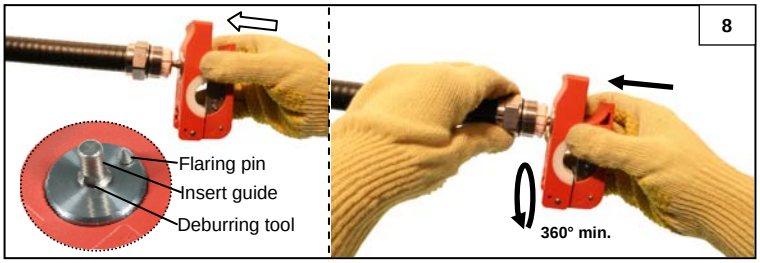


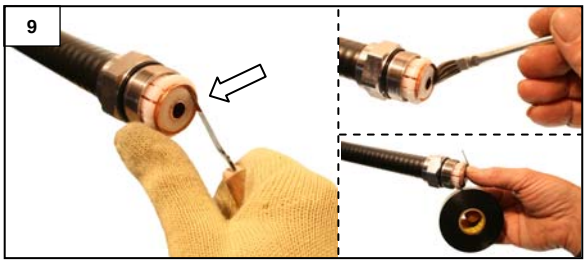


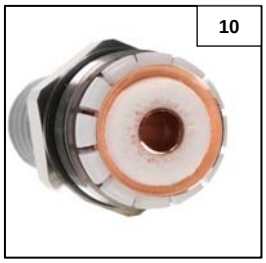


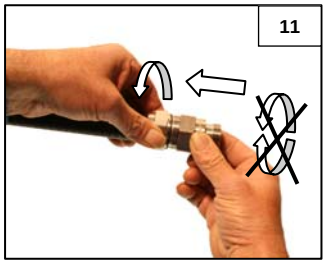


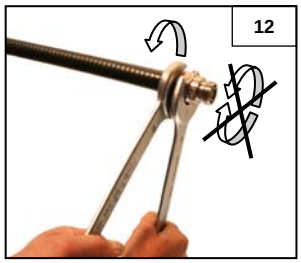












Installation method with Universal Trimming Tool

TRIM-SET-L78-D01
Consist of:

Body:	**TRIM-U-14-78**
Flaring tool:	**TRIM-FL78**
Insert:	**TRIM-IL78-D01**
Insert consist of:	
Blade holder:	**TRIM-IL78-D01**
Collet:	**TRIM-IL78**

Attention:
Trimming tool to be handled and used with great care, blades are extremely sharp!
It is recommended to use protective gloves. Do not use great force.

Please refer to the instruction of the Universal Trimming Tool in addition!

Straighten the cleaned cable front part in a length of min. 200 mm / 8 in.
Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Cut and remove the jacket in the length as shown. Do not damage the outer conductor! (it is recommended to use the stripping tool JSTRIP-78-2).
2. Insert cable into trimming tool, so that min. 4 corrugations are in front of the main trim blade. Make sure that the collet guide fits properly in a corrugation valley as shown. The cable also fits properly to the complete base of the tool. The main blade is located on the crest (top) of corrugation, the jacket knife is located in an non dismantled jacket area.
3. Rotate trimming tool around the cable in direction of the arrow shown on the tool by touching tool turning points T1 and T2 only. Do not use any additional force greater than the preset trimming tool spring tension. Once the outer conductor is cut, continue turning the tool whereby the tool can be touched on tool turning points T1, T2 and T3 until the cable is completely cut (outer- & inner conductor). Turn the tool min. 2 more times around the cable in order to make sure the cable jacket will be cut as well. Open blade housing and remove the tool.
4. Carefully cut the jacket lengthwise with a knife, do not damage the outer conductor. Remove the jacket. Clean the prepared cable end, remove any particles carefully.
5. Check the stripping dimensions.
6. Push the back-nut of the connector onto cable until claws falls into first corrugation valley as shown.
   Attention: Make sure that the O-Ring slides over the outer conductor without getting pushed out of position.
7. Push a bit of dielectric to the centre in order to have a free space to insert the flaring pin of the tool as required for the next step.
8. Insert cable insert guide of the trimming tool into the cable inner conductor; make sure that the flaring pin is located between outer conductor and foam/dielectric (in the free space made before). Keep pushing the back-nut to the front while turning the trimming tool to flare the outer conductor and deburr the inner conductor. Flare diameter has to be evenly round and concentrically to the cable axis.
9. The flared area (cone) has to be free of any dielectric material, if necessary bend the dielectric back to the centre. Clean the prepared cable end, remove any particles very carefully with a brush. It is not recommended to use steel or similar hard brushes, because these can deeply press particles inside the dielectric. Adhesive tape can be used additionally for removing the finest particles.
10. **Check the complete preparation. Careful preparation is the key for good VSWR and especially for proper PIM performance.**
11. Push connector front part onto prepared cable end; do never turn the front part! Pay attention to straight position of connector parts while tightening the connector by turning the back nut only (first by hand). Never turn the front part of the connector!
12. Keep the connector body steady and tighten the back nut of the connector by use of open end wrenches. Tighten properly to mechanical stop (no visible gap between body and back nut).

Keep the interface of the connector clean!