

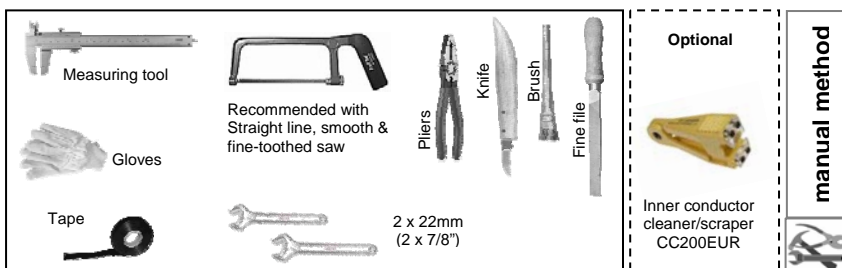
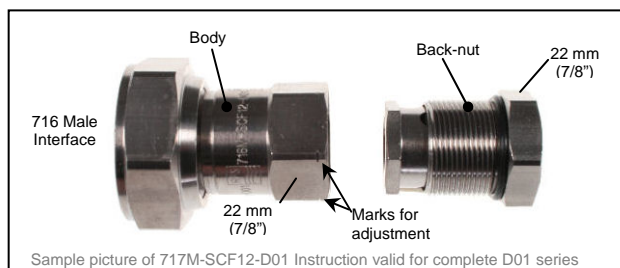


CELLFLEX® Coaxial Cable Connectors

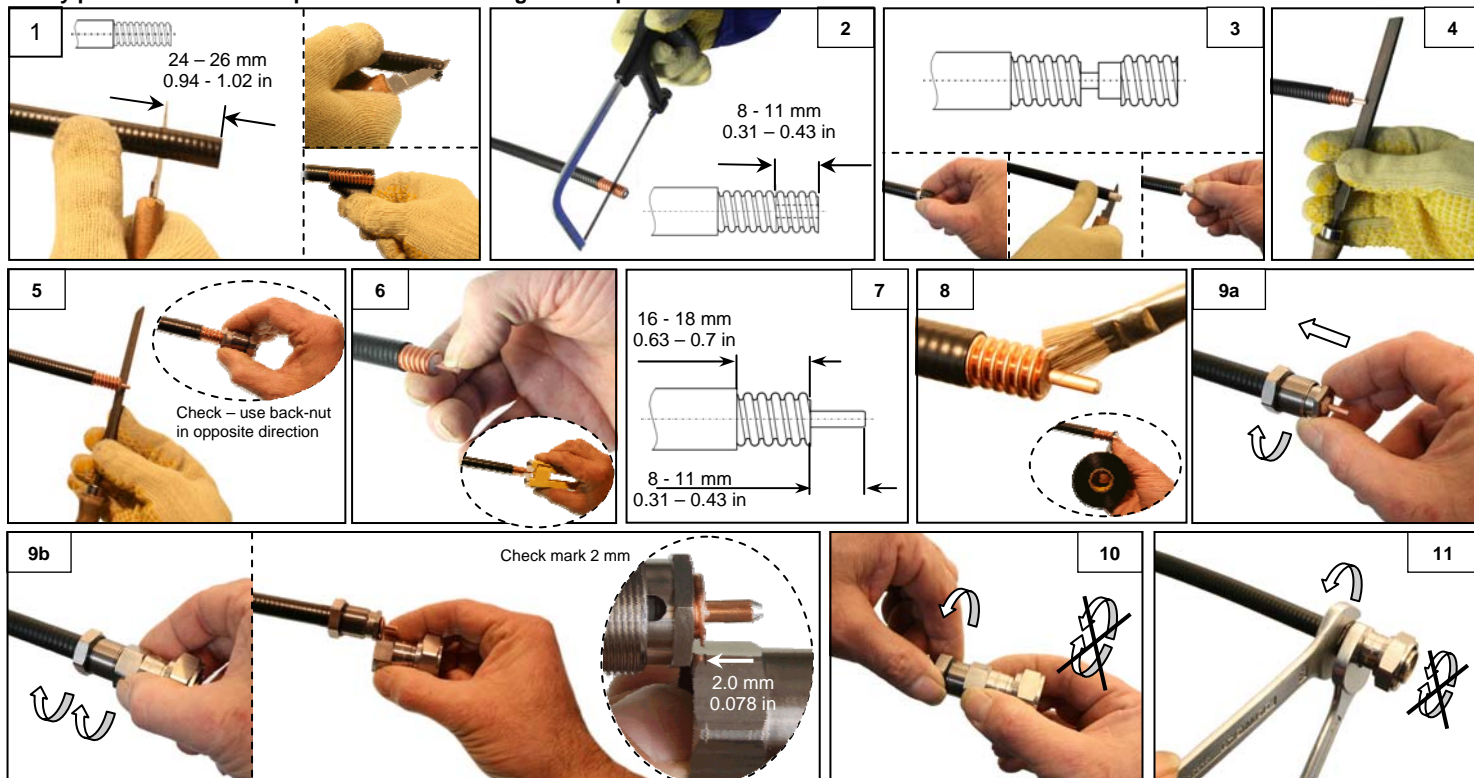
Installation Instruction

2800128-C (Replacement for 2800101)
SCF 12-50 Cables
OMNI FIT™ Premium Connectors Series D01

These instructions are written for qualified and experienced personnel. Please study them carefully before starting any work. Any liability or responsibility for the results of improper or unsafe installation practices is disclaimed. Please respect valid environmental regulations for assembly and waste disposal. Always make sure to use appropriate personal protection!



Safety precaution: Sharp blade => Protective gloves required !



Manual installation method with standard hand tools

Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Cut the straightened cable in a right angle to the cable axis with a fine toothed hacksaw. Cut and remove the jacket, in the dimension as shown. Do not damage the outer conductor.
2. Cut only the outer conductor with a fine toothed hacksaw; continue to cut the dielectric with a knife. Do not cut or damage the inner conductor surface.
3. Remove the trimmed outer conductor. Carefully cut the dielectric lengthwise and remove it. Take care not to damage the copper cladding, also make sure not to bend the inner conductor out of the straight line.
4. Make a chamfer on the inner conductor with a fine file.
5. Remove all edges very carefully; rework the outer conductor if necessary in order to achieve a passable thread on the outer conductor. It is recommended to check easy turn ability with the back-nut of the connector as shown (use in reversed direction). Remove back-nut after checking.
6. It is imperative to achieve a pure metallic contact surface on the protruding length of the inner conductor. This may be realized by scraping away completely all foam and adhesive (thin layer may appear transparent) from the inner conductor manually

(fingernail) or with a dedicated tool (e.g. CC200EUR). Take care not to damage the copper cladding, also make sure not to bend the inner conductor out of the straight line.

7. Check the complete preparation (dimensions). Careful preparation is the key to good VSWR and especially to proper PIM performance!
8. 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 to remove the finest particles.
9. Screw the back-nut onto the outer conductor and over the jacket until the outer conductor is in level with the check mark (2mm) on the connector body. Use only low pressure to avoid damaging the treaded gasket inside. The front part of the connector is equipped with a built-in socket wrench; this can be used to screw the adjustable back-nut into position.
10. Push the connector front part onto the prepared cable end; do never turn the front part! Pay attention that the connector parts are well aligned while tightening them 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).

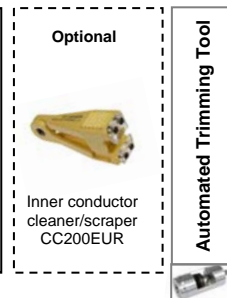
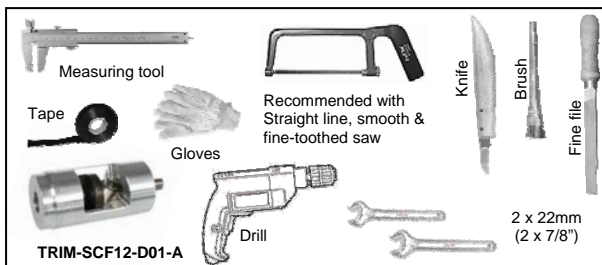
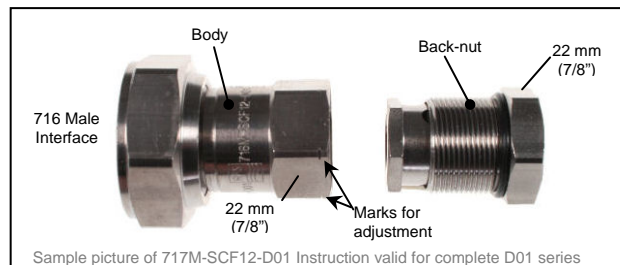


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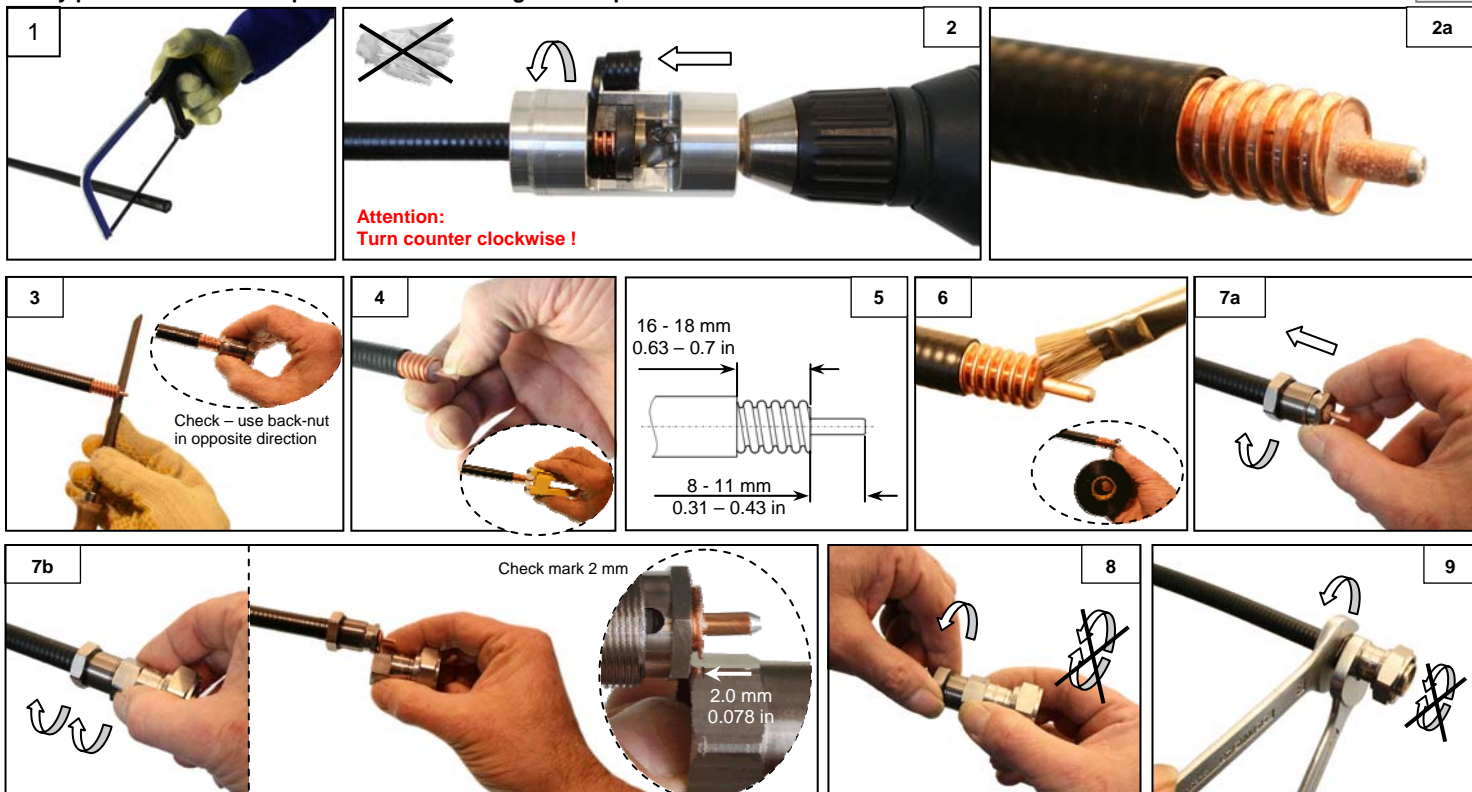
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SCF 12-50 Cables
OMNI FIT™ Premium Connectors Series D01

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Safety precaution: Sharp blade => Protective gloves required !



Installation method with Automated Trimming Tool

Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Cut the straightened cable in a right angle to the cable axis with a fine toothed hacksaw.
2. Insert the cable into the Automated Trimming Tool. Press the Automated Trimming Tool gently against the cable and core out the cable. Rotate counter clockwise at medium speed (approx. 300 rpm) until mechanical stop is reached. Keep the drill in straight line while the whole process. Do not wear gloves if working with a drill!
3. Remove all edges very carefully; rework the outer conductor if necessary in order to achieve a passable thread on the outer conductor. It is recommended to check easy turn ability with the back-nut of the connector as shown (use in reversed direction). Remove back-nut after checking.
4. **It is imperative to achieve a pure metallic contact surface on the protruding length of the inner conductor.** This may be realized by scraping away completely all foam and adhesive (thin layer may appear transparent) from the inner conductor manually (fingernail) or with a dedicated tool (e.g. CC200EUR). Take care not to damage the copper cladding, also make sure not to bend the

inner conductor out of the straight line.

5. **Check the complete preparation (dimensions). Careful preparation is the key to good VSWR and especially to proper PIM performance!**
6. 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 to remove the finest particles.
7. Screw the back-nut onto the outer conductor and over the jacket until the outer conductor is in level with the check mark (2mm) on the connector body. Use only low pressure to avoid damaging the treaded gasket inside. The front part of the connector is equipped with a built-in socket wrench; this can be used to screw the adjustable back-nut into position.
8. Push the connector front part onto the prepared cable end; do never turn the front part! Pay attention that the connector parts are well aligned while tightening them by turning the back-nut only (first by hand).
9. 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).

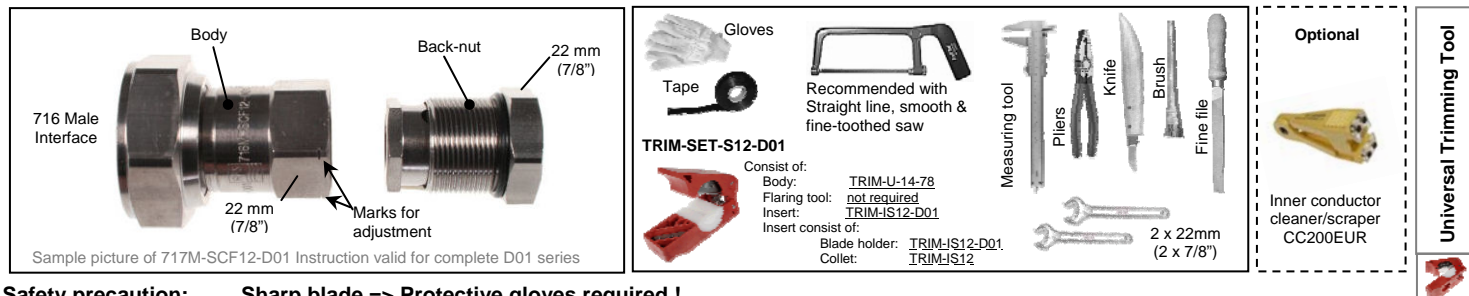


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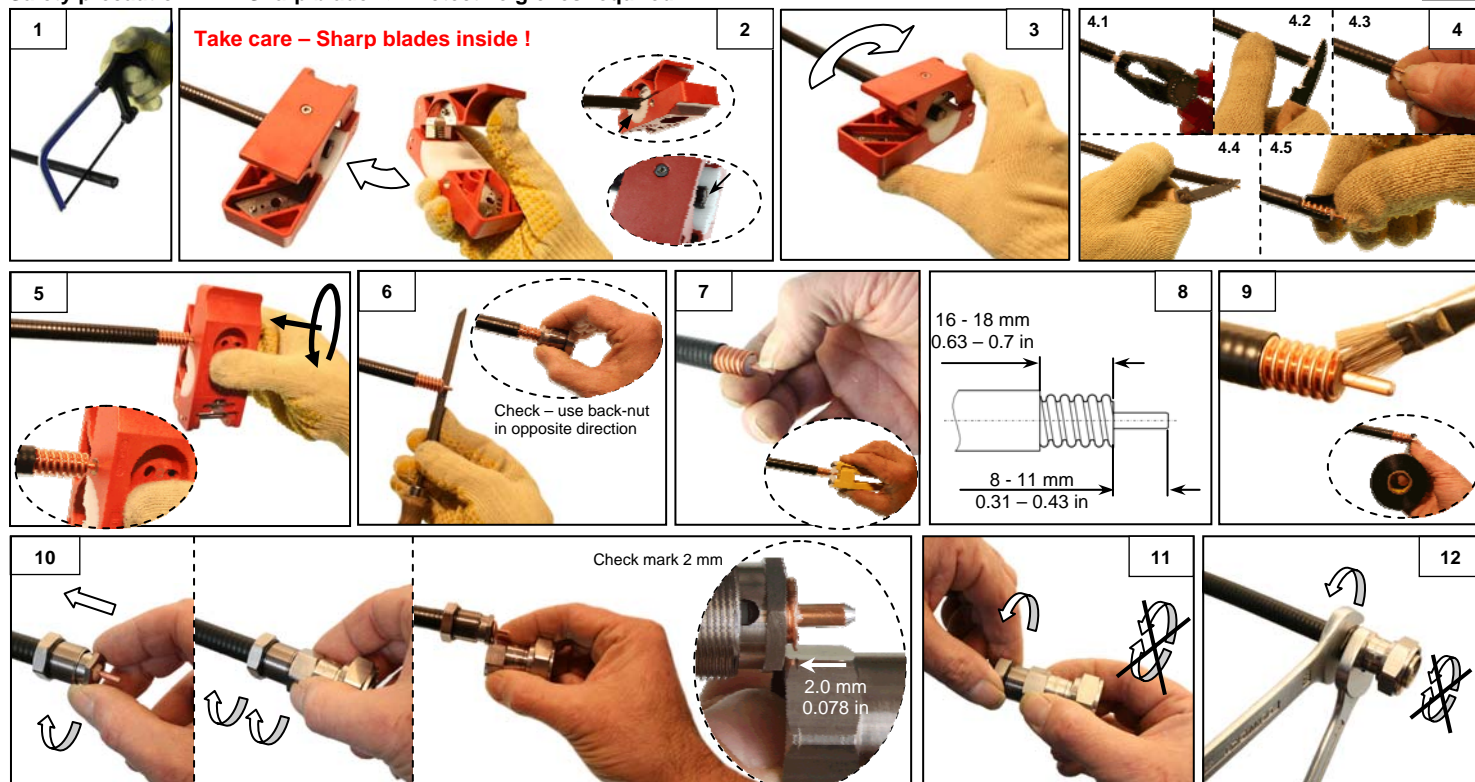
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Safety precaution: Sharp blade => Protective gloves required !



Installation method with Universal Trimming Tool

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 tool in addition! Keep the cable end downwards in order to prevent particles from entering during preparation.

- Cut the straightened cable in a right angle to cable axis with a fine toothed hacksaw.
- Insert the cable into the Trimming Tool and push against the inner stop as shown. The cable fits properly to the complete insert (collet) of the tool. Close blade housing of the tool.
- Slowly rotate the Trimming Tool clockwise - as indicated by the arrow on the tool - with slight pressure on the blade housing until jacket, outer conductor and dielectric are cut. Open blade housing and remove the tool.
- Remove the cable jacket and outer conductor. Carefully cut the dielectric lengthwise and remove it. Take care not to damage the copper cladding, also make sure not to bend the inner conductor out of the straight line. Carefully cut the second part of jacket lengthwise by knife and remove it.
- Insert the inner conductor into the hole of the chamfer tool, then slowly press and rotate the Trimming Tool clockwise several times to chamfer the inner conductor.
- Remove all edges very carefully; rework the outer conductor if necessary in order to achieve a passable thread on the outer conductor. It is recommended to check easy turn ability with the back-nut of the connector as shown (use in reversed direction). Remove back-nut after

checking.

- It is imperative to achieve a pure metallic contact surface on the protruding length of the inner conductor. This may be realized by scraping away completely all foam and adhesive (thin layer may appear transparent) from the inner conductor manually (fingernail) or with a dedicated tool (e.g. CC200EUR). Take care not to damage the copper cladding, also make sure not to bend the inner conductor out of the straight line.
- Check the complete preparation (dimensions). Careful preparation is the key to good VSWR and especially to proper PIM performance!
- 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 to remove the finest particles.
- Screw the back-nut onto the outer conductor and over the jacket until the outer conductor is in level with the check mark (2mm) on the connector body. Use only low pressure to avoid damaging the treaded gasket inside. The front part of the connector is equipped with a built-in socket wrench; this can be used to screw the adjustable back-nut into position.
- Push the connector front part onto the prepared cable end; do never turn the front part! Pay attention that the connector parts are well aligned while tightening them by turning the back-nut only (first by hand).
- 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).