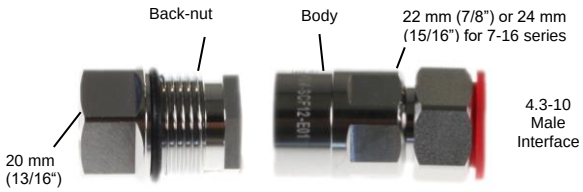
CELLFLEX® Coaxial Cable Connectors

Installation Instruction

10000022960-06
SCF12-50 Cables
OMNI FIT™ Premium Connectors Series E01

This installation instruction has been written for qualified, skilled personnel. Please study them carefully before starting any work. RFS disclaims any responsibility for the result of improper or unsafe installation. All national safety and environmental regulations must be followed during installation. To avoid risk of injury, RFS strongly recommends wearing personal protection during the installation process.



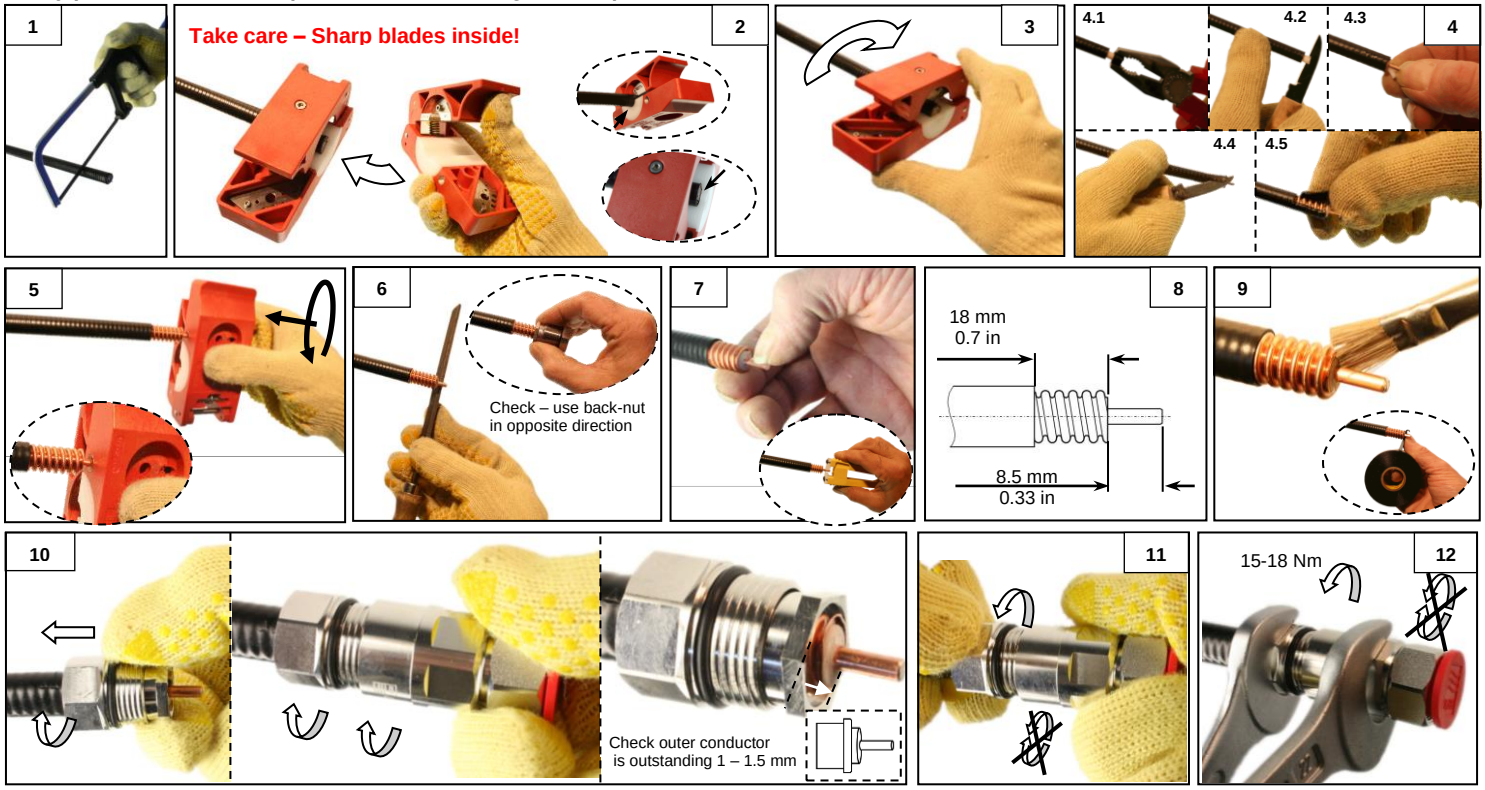
Sample picture of 43M-SCF12-E01 Instruction valid for complete E01 series

Optional

Inner conductor cleaner/scraper CC200EUR

Universal Trimming Tool

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



Installation method with Universal Trimming Tool

Attention: Trimming Tool to be handled and used with care, blades are extremely sharp! It is recommended to use protective gloves. Please also refer to the instruction of the tool in addition. Keep the cable end downwards in order to prevent particles from entering during preparation.

1. Cut the straightened cable in a right angle to cable axis with a fine toothed hacksaw.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. **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.
8. Check trim dimensions.
9. 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.
10. Screw the back-nut onto the outer conductor and the jacket until there is a space of 1 to 1.5 mm between outer conductor and back-nut. 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.
11. Push the connector front part onto the prepared cable end; do not 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).
12. Keep the connector body and cable steady and tighten the back-nut of the connector by use of open end wrenches. Tighten properly up to 15-18 Nm.

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