



**CELLFLEX® Coaxial Cable  
Connectors**

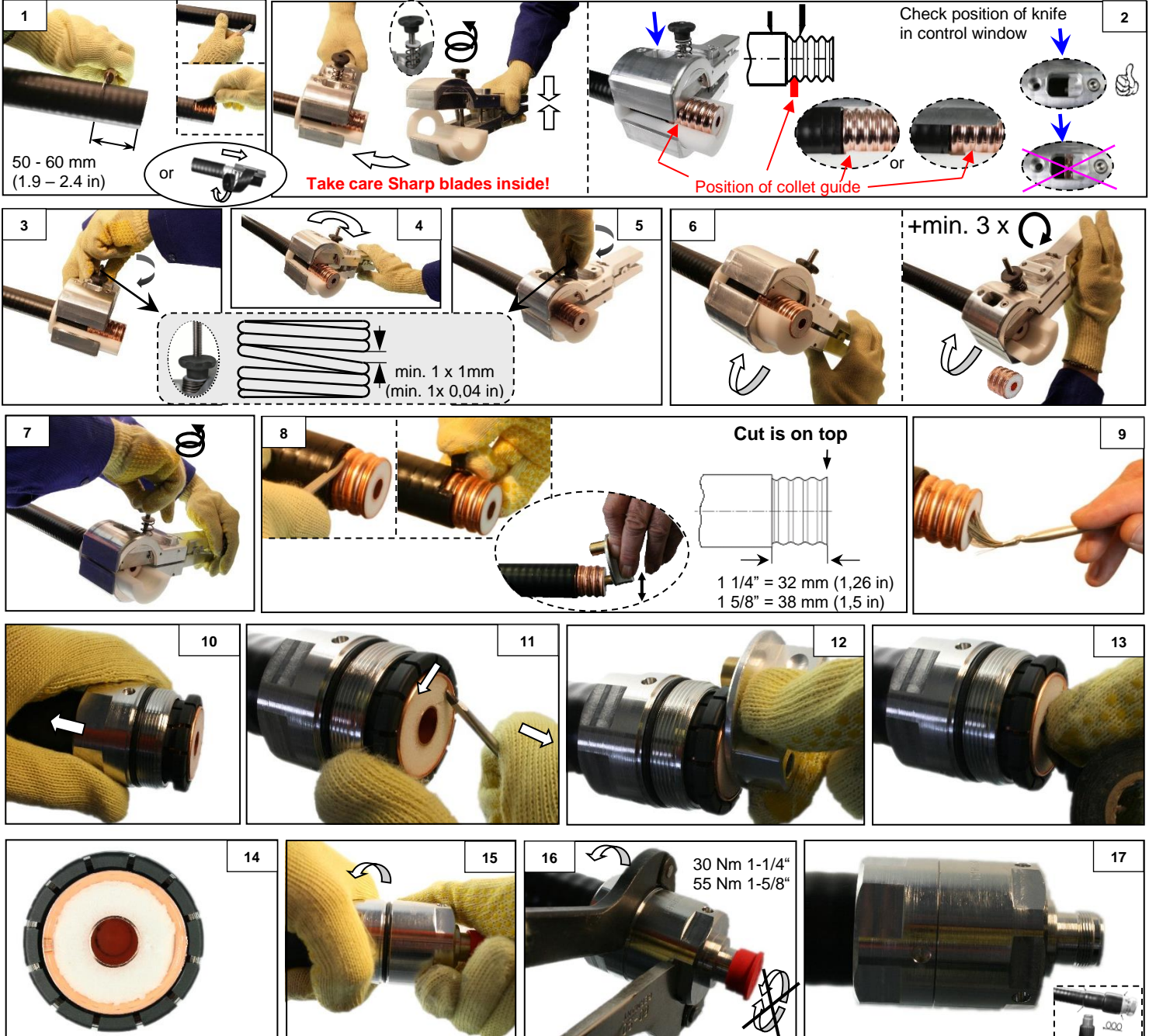
**Installation Instruction**  
1000023739-03  
LCFS114/UCF114-50 & LCF158-50-Cables  
& RCF114-50 & RCF158-50 Cables  
OMNI FIT™ E01 Connectors

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.

 <p>Back-nut</p> <p>Front-part with 4.3-10 interface</p> <p>Sample picture of 43F-LCF114-E01 Instruction valid for complete E01 series</p>	<p>Measuring tool or</p> <p>Tape</p> <p>30 Nm 1-1/4" 55 Nm 1-5/8"</p> <p>Hook-Spanner PHS60-90-5</p> <p>Recommended with Straight line, smooth &amp; fine- teeth saw</p> <p>Knife</p> <p>Brush</p> <p>Gloves</p> <p>Universal Trimming tool TRIM-SET-L114-D01 for 1 1/4" cables TRIM-SET-L158-D01 for 1 5/8" cables</p>	<p>Additionally recommended</p>  <p>JSTRIP-114-2 for 1 1/4" cables JSTRIP-158-2 for 1 5/8" cables</p> <p>Trimming tool method</p>
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**Safety precaution:**

**Sharp blade => Protective gloves required !**



1. Strip 50 - 60 mm (1.9 - 2.4 in) of outer jacket. **or** Use alternative stripping method.

2. Check position of knife in control window. **Take care Sharp blades inside!** Position of collet guide.

3. Strip inner jacket.

4. Strip shield.

5. Strip dielectric. **min. 1 x 1mm (min. 1x 0,04 in)**

6. Strip center conductor. **+min. 3 x**

7. Strip center conductor (continued).

8. Strip center conductor (continued). **Cut is on top**.  
1 1/4" = 32 mm (1,26 in)  
1 5/8" = 38 mm (1,5 in)

9. Clean center conductor.

10. Insert center conductor into connector.

11. Insert shield into connector.

12. Insert dielectric into connector.

13. Insert inner jacket into connector.

14. Final assembly view.

15. Tighten connector.

16. Tighten connector. **30 Nm 1-1/4" / 55 Nm 1-5/8"**

17. Final assembly view.

**Importing Weatherproofing Remarks** –A heat shrink sleeve with adhesive lining must be used for RCF cables!



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**Installation method with Universal Trimming Tool**

**TRIM-SET-L114-D01** for 1 1/4" cables

Consist of:

Body: TRIM-U-114-158

Flaring tool: TRIM-FL114-158

Insert: **TRIM-IL114-D01**

Insert consist of:

Blade holder: TRIM-IL114-D01

Collet: TRIM-IL114



**TRIM-SET-L158-D01** for 1 5/8" cables

Consist of:

Body: TRIM-U-114-158

Flaring tool: TRIM-FL114-158

Insert: **TRIM-IL158-D01**

Insert consist of:

Blade holder: TRIM-IL158-D01

Collet: TRIM-IL158

**Attention:**

Trimming tool to be handled and used with care, blades are extremely sharp! It is recommended to use protective gloves.

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

1. Straighten the cleaned cable front part in a length of min. 200mm (8"). Remove the jacket with a knife in the length as shown (it is recommended to use one of the shown JSTRP-\* jacket stripping tool). Do not damage the outer conductor!
2. Open the Universal Trimming Tool by pressing the base and the top handle together and insert the cable as shown. Position the collet guide of the insert in a corrugation close to the trimmed cable jacket. The cable fits properly to the complete collet segment of the tool. The main blade is located on the crest (top) of the fourth – fifth corrugation and the jacket knife is in a non dismantled area (see control window).
3. Keep the tool in the correct position; turn the hand wheel in order to tension the spring. Note: At least one gap should remain with a residual clearance of about 1mm (see sketch).
4. Rotate the Universal Trimming Tool around the cable in direction of the arrow shown on the tool until the outer conductor and the dielectric have been cut.
5. Re-adjust the hand wheel again as described in step 3 and shown in the sketch.
6. Rotate the Tool again in the same direction as before. Once the cable is completely cut after several turns, continue turning the tool min. 3 more times around the cable in order to make sure the jacket will be cut as well.
7. Unfasten the Tool by turning the hand wheel in opposite (counter clockwise) direction and remove the tool by pressing the handles together.
8. Deburr inner conductor. Carefully cut the jacket lengthwise with a knife; do not damage the outer conductor. Remove the jacket. Check trimming dimensions. If the inner conductor should be deformed (from cutting), insert the cable guide pin of the flaring tool and carefully form it back to round.
9. Remove any particles.
10. Push back-nut 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.
11. Push a small part of dielectric to the centre in order to get a small free space for the flaring pin of the trimming tool.
12. Insert cable guide pin of the trimming tool into the cable inner conductor (the smaller one for 1 1/4" cables and the bigger one for 1 5/8" cables), 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 and carefully pushing the trimming tool to flare the outer conductor. Flare diameter has to be evenly round and concentric to the cable axis.
13. Clean the cable end, remove any particles very carefully. Tape can be used to remove the finest particles.
14. The flared area (cone) has to be free of any dielectric material, if necessary bend the dielectric back to the centre. Check the complete preparation.
15. Push connector front part onto prepared cable end; do not 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).
16. Keep the connector body and cable steady and tighten the back-nut of the connector with a torque of **30 Nm** for LCF114-E01 or **55 Nm** for LCF158-E01 by the use of two poly hook spanners.
17. **Important Weatherproofing Remarks:**  
A heat shrink sleeve with adhesive lining (e.g. HEAT-5016-024 for 1 1/4", or HEAT-6319-026 for 1 5/8") must be used for RCF cables!