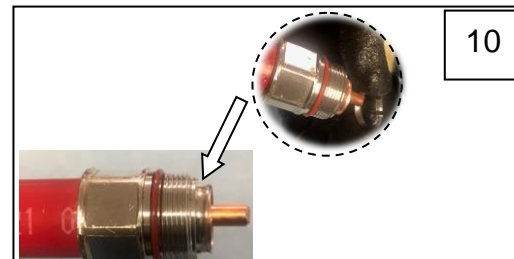
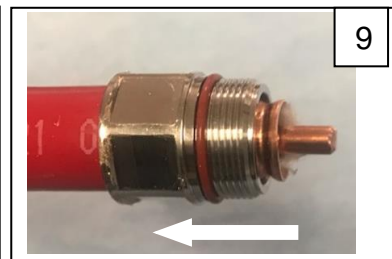
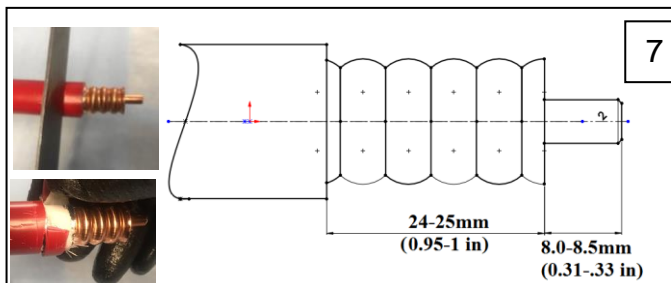
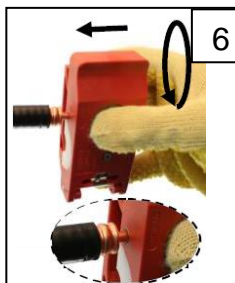
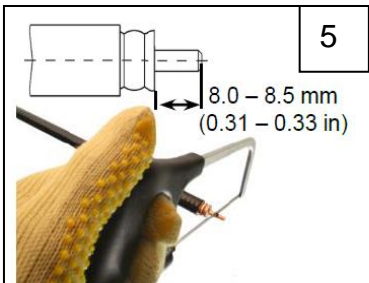
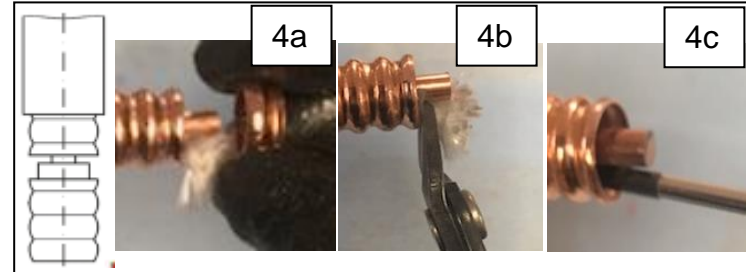
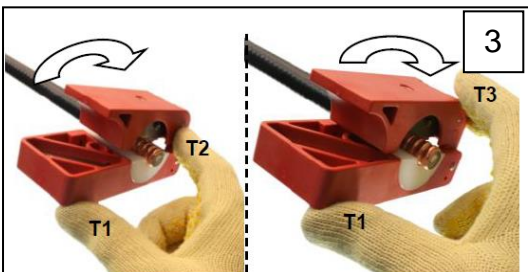
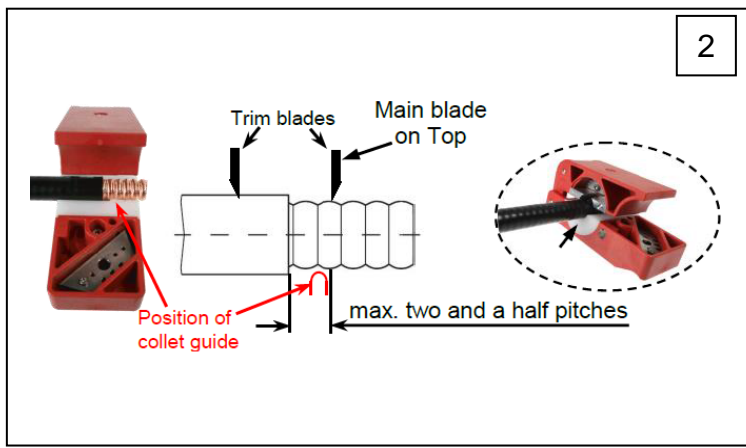
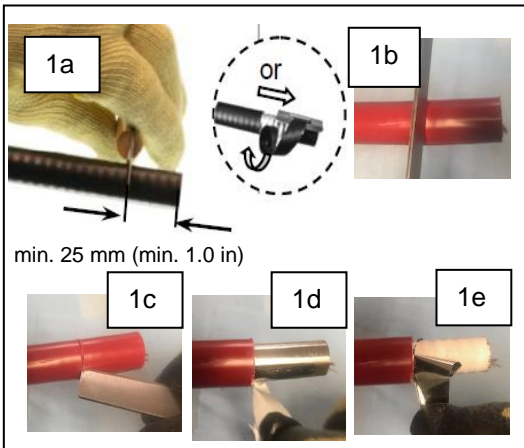
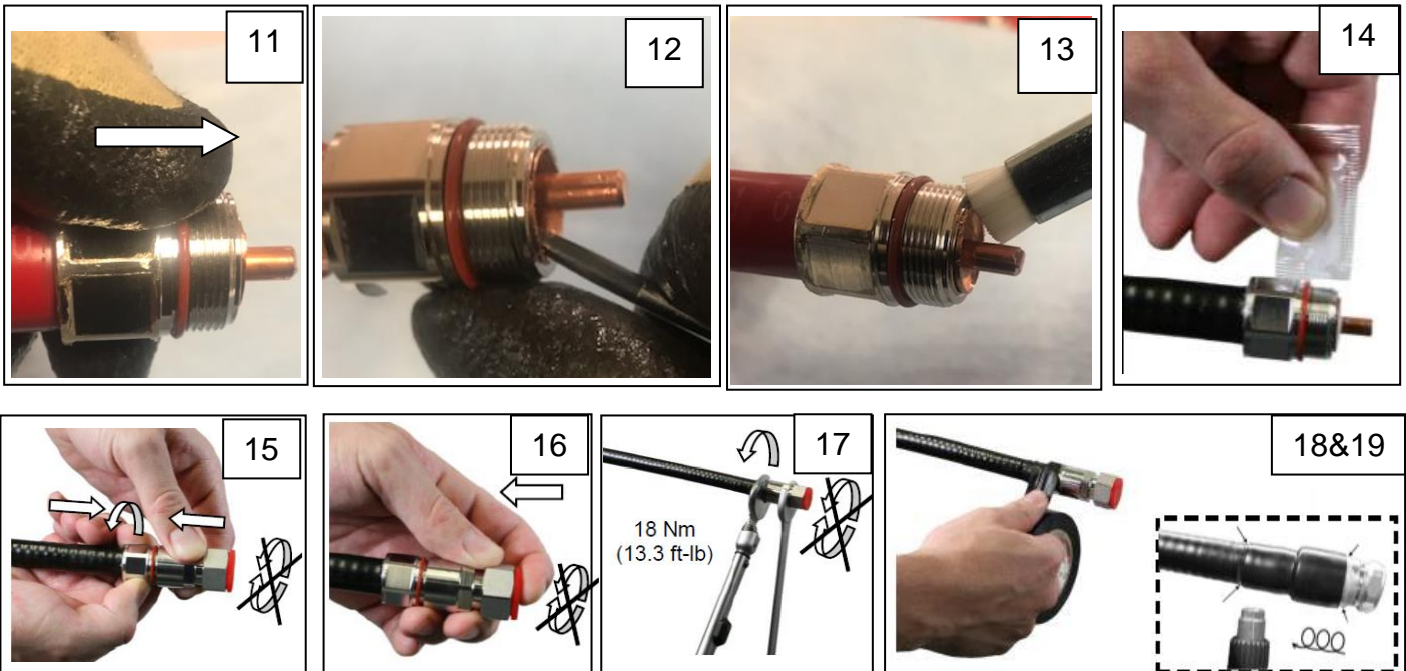


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	<p>Measuring tool or Recommended with Straight line, smooth & fine- teeth saw</p> <p>Gloves</p> <p>Sealing material e.g. Tape, Sleeve etc.</p> <p>Universal Trimming tool TRIM-SET-2HB12-C03</p> <p>Pliers</p> <p>Knife</p> <p>Brush</p> <p>2 x 20mm (2 x 13/16")</p>	<p>Additionally recommended</p> <p>JSTRIP-12-3</p> <p>Cutter</p> <p>Trimming tool method</p>
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Safety precaution: Sharp blade => Protective gloves required!





Installation method with the Universal Trimming Tool



TRIM-SET-2HB12-C03

Attention:

The trimming tool **SHOULD** be handled and used with great care, blades are extremely sharp! It is recommended to use protective gloves. Do not use great force.

For additional information, please refer to the installation instructions of the Universal Trimming Tool!

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

1. Straighten the front of the cleaned cable for a minimum length of 200mm / 8 in.
 Remove the jacket and three layers of protective tape with a knife in the length as shown (RFS recommends using the stripping tool JSTRIP-12-3 to remove the jacket). Do NOT damage the outer conductor!
2. Insert the cable into the trimming tool, so that at least 3 corrugations are in front of the main trim blade. Position the collet guide of the trimming tool in the first corrugation nearest to the trimmed cable jacket. The cable fits properly to the complete base of the tool. The main blade is located on the crest (top) of the corrugation.
3. Rotate the trimming tool around the cable in the 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 pre-set trimming tool spring tension. If 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 dielectric and jacket is cut. Then, open the blade housing and remove the tool.
4. Remove the trimmed outer conductor. Take care not to damage the copper inner conductor, as well take care not to cut in the outer conductor while carefully cutting the dielectric lengthwise. Remove the dielectric. It is imperative to achieve a pure metallic contact surface on the protruding length of the inner conductor. Take care not to damage the copper conductor, also make sure not to bend the inner conductor out of the straight line. Remove all particles with a brush.
5. Cut the inner conductor to the length as shown. Do NOT bend the inner conductor out of the straight line.
6. Provide the cable's inner conductor with a chamfer using the deburr functionality. For this purpose, insert the cable inner conductor into the chamfer tool, then press carefully and rotate the Trimming Tool clockwise several times.
7. Carefully cut the jacket and the three protective layers lengthwise with a knife. Do NOT damage the outer conductor. Remove the jacket. Inspect the prepared cable dimensions.
8. Slide the Profile-Ring onto the cable – position over the second corrugation before the jacket as shown (the inner groove of the P-Ring fitting with the top of the second corrugation next to the jacket). Wipe a light film of grease on the Profile-Ring.
9. Push the back-nut onto the cable and over the Profile-Ring until it stops (first corrugation valley is free/exposed).
10. Put the Spring C-Ring into first corrugation valley of the cable.
11. Push the back-nut back to the front until it stops (Spring C-Ring is covered).



**HELIFLEX® Coaxial Cable
Connectors**

Installation Instruction

**10000023665-P1
2HB12-50JPLR**

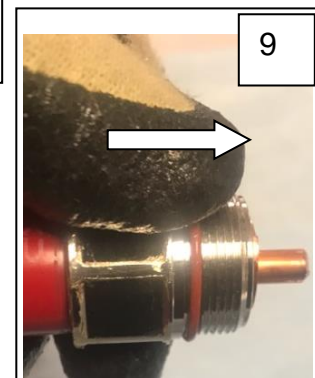
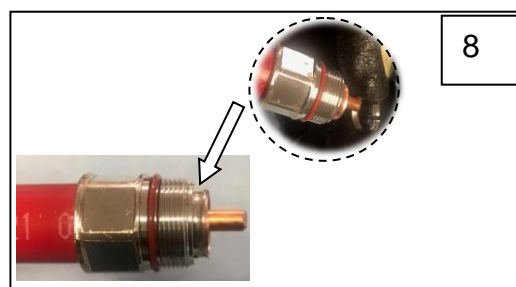
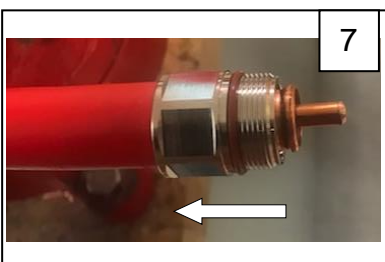
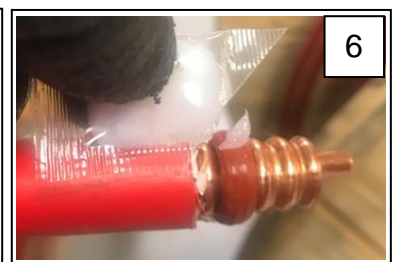
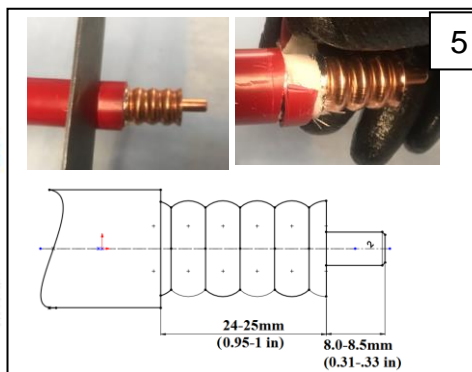
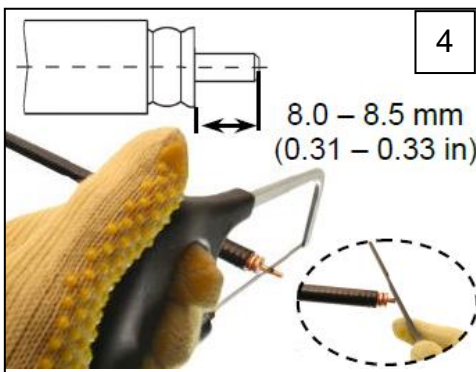
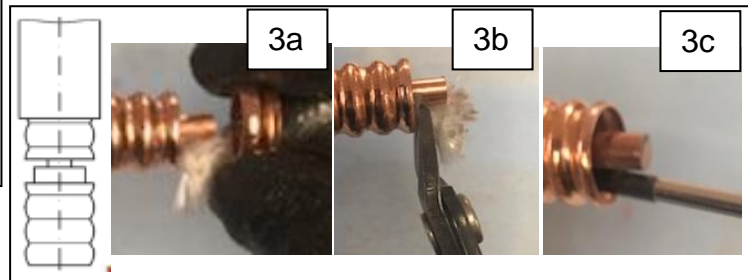
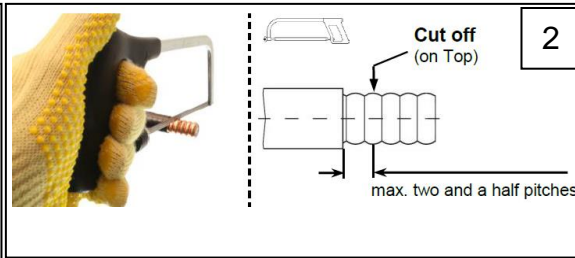
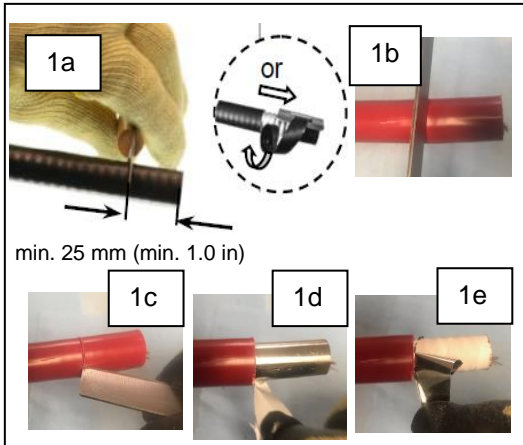
OMNI FIT™ C03 Connectors

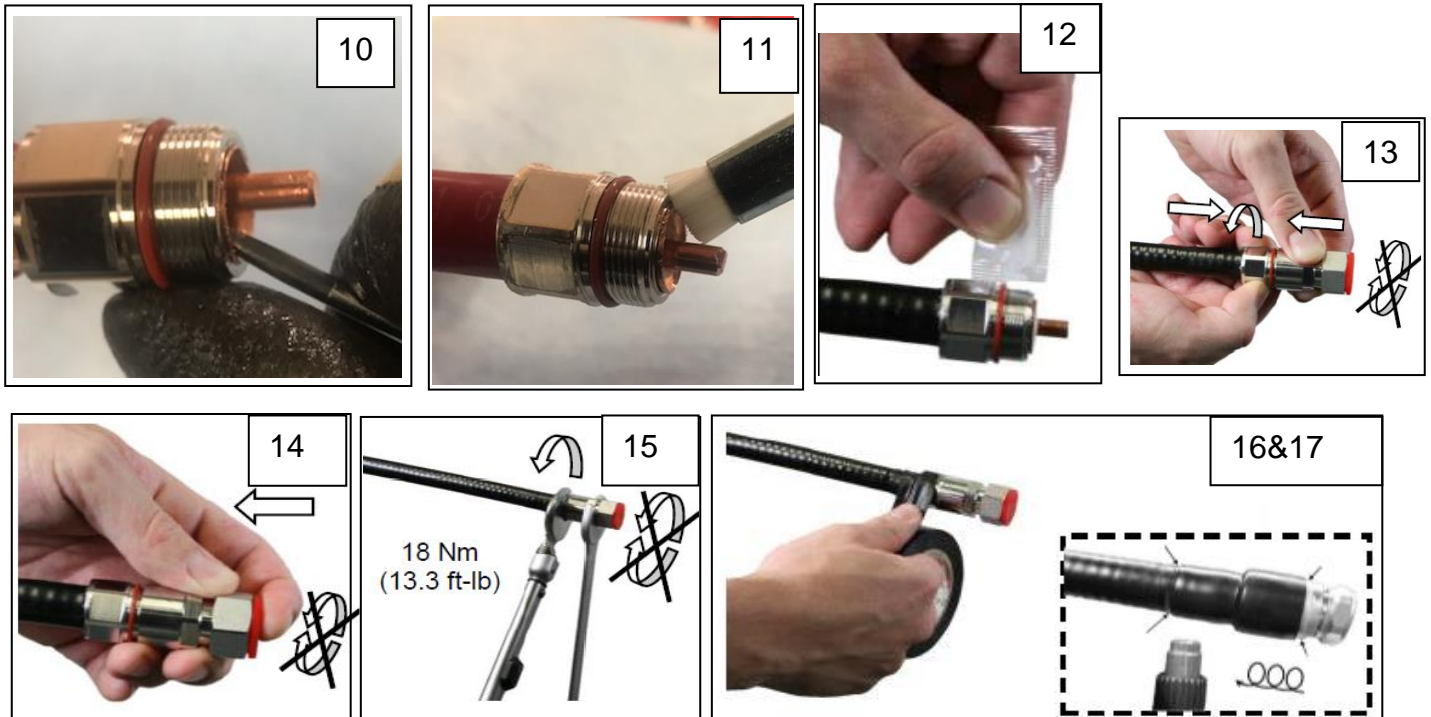
12. Push a bit of the dielectric to the center in order to have a free space to insert the screwdriver and flare the outer conductor. Keep pushing the back-nut to the front while running the tip of a screwdriver (rounded edges) around the outer conductor to create an outer conductor flare. Flare diameter has to be evenly round and concentrically to the cable axis.
13. Clean the cable end; remove any particles very carefully with a brush. It is not recommended to use steel or similar type hard brushes because they can press particles deep inside the dielectric. Adhesive tape can also be used to remove the finest particles. Check the complete preparation. Careful preparation is the key to good VSWR and especially to proper PIM performance.
14. Wipe the back-nut O-Ring with a light film of grease.
15. Push the connector front part onto the prepared cable end; NEVER turn the front part!
16. Pay attention to straight position of the connector parts while tightening the connector by turning the back-nut only (first by hand). NEVER turn the front part of the connector!
17. Keep the connector body steady and tighten the connector back nut by using an open end wrench. Tighten properly-recommended torque is 18 Nm (13.3 ft-lb). Keep the interface clean; do not remove the protection cap before mating.
18. **Important Remarks – Weatherproofing: A heat shrink sleeve with adhesive lining (e.g. HEAT-2HB-20) must be used for 2HB12 Series cables!**
19. Roughen the jacket with fine grained sandpaper (e.g. 180 grain) and clean the shrinking area e.g. with cable cleaner. Pre-heat the cable jacket to hand warm and the connector to approx. 60°C (140°F). Slide the heat shrink sleeve into place over the connector body as shown. Shrink the sleeve with a soft yellow flame if using a gas burner or go for hot air gun. Shrink the sleeve onto the connector by smoothly applying a constant flame (heat) with a circular motion until the sleeve will lay flat all around and the hot solvent adhesive discharged all around. Continue with an even circular motion proceeding in direction of the cable until it shrinks smoothly forming a weatherproof seal and the hot solvent adhesive discharged all around on both ends. Note: Do not overheat especially the jacket - max. temperature = 70°C (158°F), shrinking temperature is typically around 130°C (266°F).

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	<p>Measuring tool or Gloves Tape Sealing material e.g. Tape, Sleeve etc.</p> <p>Recommended with Straight line, smooth & fine-teeth saw</p> <p>Pliers Knife Brush Screwdriver Fine file ~ 3-5mm ~ 0.15"</p> <p>2 x 20mm (2 x 13/16")</p>	<p>Additionally recommended</p> <p>JSTRIP-12-3</p> <p>Cutter</p>	<p>manual method</p>
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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. Straighten the front of the cleaned cable for a minimum length of 200mm / 8 in. Remove the jacket and three layers of protective tape with a knife in the length as shown (RFS recommends using the stripping tool JSTRIP-12-3 to remove the jacket). Do NOT damage the outer conductor!
2. Cut the outer conductor only with a fine toothed hacksaw in a distance of max. two and a half pitches from the jacket on the crest of corrugation. Make sure to cut in a right angle to cable axis! Continue to cut the dielectric with a knife. Do not cut or damage the inner conductor!
3. Remove the trimmed outer conductor. Take care not to damage the copper inner conductor, as well take care not to cut in the outer conductor while carefully cutting the dielectric lengthwise. Remove the dielectric. It is imperative to achieve a pure metallic contact surface on the protruding length of the inner conductor. Take care not to damage the copper conductor, also make sure not to bend the inner conductor out of the straight line. Remove all particles with a brush.
4. Cut the inner conductor in the length as shown. Take care: do not bend the inner conductor out of the straight line. Make a small chamfer on the inner conductor with a fine file.
5. Cut and remove cable jacket and the three protective tapes to the dimension shown by knife. Do not damage the outer conductor. Inspect the cable preparation dimensions.
6. Slide the Profile-Ring onto cable – positioned over the second corrugation before the jacket as shown (the inner groove of the P-Ring fitting with the top of corrugation next to the jacket). Wipe a light film of grease on the Profile-Ring.
7. Push back-nut onto cable and over the Profile -Ring until stop (First corrugation valley is free/exposed).
8. Put Spring C-Ring into first corrugation valley of the cable.
9. Push back-nut back to the front until stop (Spring C-Ring covered).
10. Push the dielectric a bit to the centre all around in order to have a free space to insert a screwdriver as required for the next work. Keep pushing the back-nut to the front while running the tip of a screwdriver (rounded edges) around the outer conductor to create an outer conductor flare. Flare diameter has to be evenly round and concentric to the cable axis.
11. Clean the cable end; remove any particles very carefully with a brush. It is not recommended to use steel or similar hard brushes, since these can press particles deeply inside the dielectric. Tip: tape can be used additionally to remove the finest particles. **Check the complete preparation. Careful preparation is the key to good VSWR and especially to proper PIM performance.**
12. Wipe the back-nut O-Ring with a light film of grease.
13. Push connector front part onto prepared cable end; do never turn the front part!



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14. 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!
15. Keep the connector body steady and tighten the back-nut of the connector by the use of open end wrenches. Tighten properly, recommended torque is 18 Nm (13.3 ft-lb).
Keep the interface clean; do not remove the protection cap before mating.
16. **Important Remarks** – Weatherproofing: **A heat shrink sleeve with adhesive lining** (e.g. HEAT-2HB-20) **must be used for 2HB12 Series cables!**
17. Roughen the jacket with fine grained sandpaper (e.g. 180 grain) and clean the shrinking area e.g. with cable cleaner. Pre-heat the cable jacket to hand warm and the connector to approx. 60°C (140°F). Slide the heat shrink sleeve into place over the connector body as shown. Shrink the sleeve with a soft yellow flame if using a gas burner or go for hot air gun. Shrink the sleeve onto the connector by smoothly applying a constant flame (heat) with a circular motion until the sleeve will lay flat all around and the hot solvent adhesive discharged all around. Continue with an even circular motion proceeding in direction of the cable until it shrinks smoothly forming a weatherproof seal and the hot solvent adhesive discharged all around on both ends. Note: Do not overheat especially the jacket - max. temperature = 70°C (158°F), shrinking temperature is typically around 130°C (266°F).