

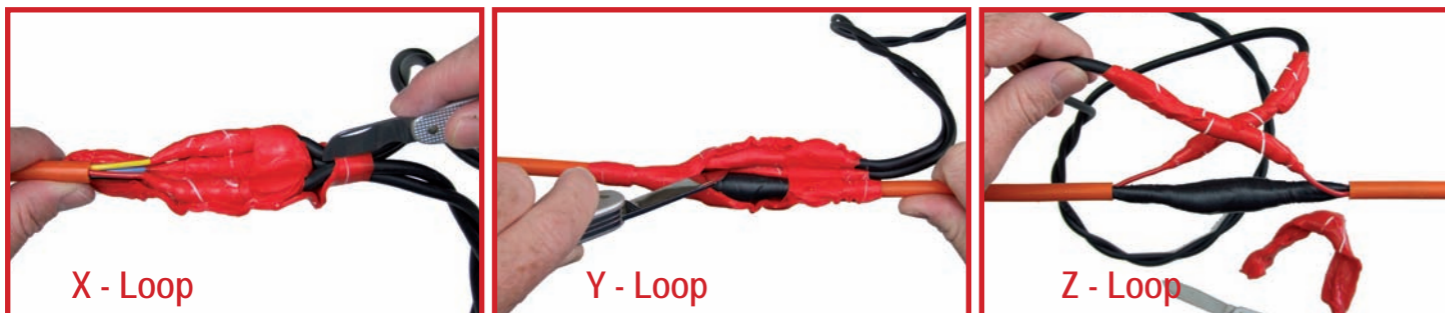
X - LOOP APPLICATION

1. Clean hands before using LLFA®.
2. **CABLE PREPARATION:** Cutback the oversheath by 50mm. Strip the wires. Connect the D-Loop Wires to the correct colours.
3. **Wrap over each connector with 130mm LLFA® TAPE:** Wrap over each of the D-Loop Wire connectors. Begin wrapping in the centre of the connector; continue 25mm past the end of the connector, along the wire, before wrapping in the opposite direction. Do the same on the other side, and end in the centre. Apply **MAXIMUM STRETCH** to create a water tight seal.
4. **30mm LLFA® SMOOTH:** Mould the connectors into a piece of LLFA® SMOOTH placed at the D-Loop Wire end of the connectors. Mould the SMOOTH between and over the connectors in this area.
5. **Create the oversheath with 350mm LLFA® TAPE STRIPS:** Start wrapping from the centre, away from the side with the exiting D-Loop wires. Wrap 25mm over the cable oversheath, wrap twice around before wrapping back towards and finishing in the centre. Wrap with **50% overlap** using the white line as a guide. Wrap with **MAXIMUM STRETCH** on the first layer and **minimum stretch** on the second. When starting a new strip, make sure that the starting edge is fully covered by successive wraps.
6. **Wrap between the D-Loop Wires:** Wrap between each of the D-Loop Wires.
7. **Wrap over the D-Loop Wires:** Wrap with **MAXIMUM STRETCH** over the D-Loop Wires, pulling them together tightly.
8. **Wrap back towards the centre with MINIMAL STRETCH** to add abrasion resistance to the completed joint.

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RE-ENTRY



CLEAN HANDS BEFORE USE
Dirt on the tape will hinder fusion.

NOTICE: The following is made in lieu of all warranties, expressed or implied: The Seller's and Manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither Seller nor Manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, the user shall determine the suitability of the product for their intended use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers of the seller and manufacturer.

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Traffic Signals

INDUCTION LOOP SPLICING KIT

X, Y or Z type joints

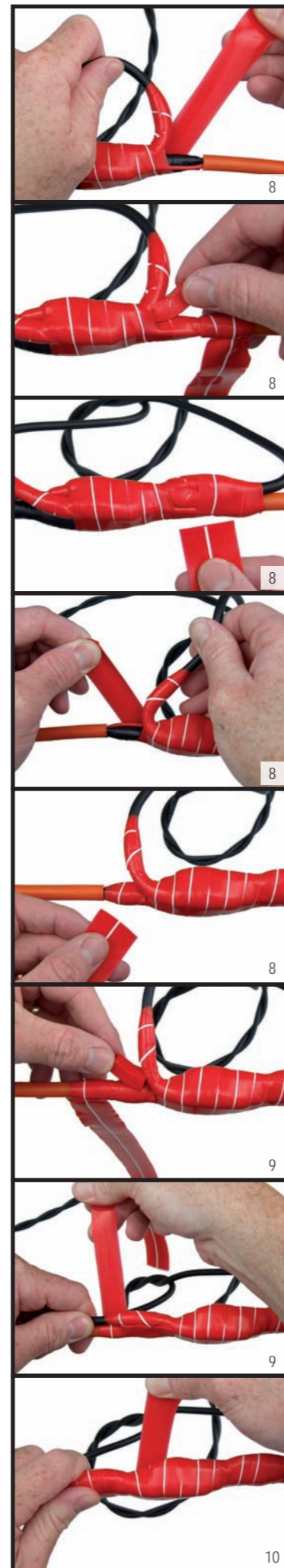
LLFA[®]
COMPRESSION TAPE

Part Number: LTS1-KIT

Z - LOOP APPLICATION

1. Clean hands before using LLFA®.
2. **CABLE PREPARATION:** Cutback the oversheath on both cables by 50 mm. Strip the wires. Connect black to black, blue to blue and yellow to yellow. Connect the D-Loop Wires to red.
3. **30mm LLFA® SMOOTH:** Mould the 3 straight through connectors into the piece of SMOOTH.
4. **Wrap the 3 wires together - 350mm LLFA® TAPE STRIP:** Wrap with 50% overlap using the white line as a guide. Start in the centre. Wrap in one direction, over the wires up to the cable oversheath, then change direction and wrap back over the centre to the other side. End in the centre. When wrapping ensure constant tension. On the first layer apply **MAXIMUM STRETCH** (300%, ½ width, or until colour lightens).
5. **APPLY PVC TAPE** over the wrapped wires to prevent the outer layers fusing to the inner layers. (This will enable re-entry to the D-Loop Wires without damage to the inner wrap.)
6. **Wrap over each connector with 130mm LLFA® TAPE:** Wrap over each of the D-Loop Wire connector. Begin wrapping in the centre of the connector; continue 25mm past the end of the connector, up the wire, before wrapping in the opposite direction. Do the same on the other side, and end in the centre. Apply **MAXIMUM STRETCH** to create a water tight seal.
7. **Wrap 50mm up each D-Loop Wire with 130mm LLFA® TAPE:** Wrap up the loop wire past each connector by an additional 50mm. This is necessary to create a water-tight seal at the point where the D-Loop Wires exit the joint. Apply **MAXIMUM STRETCH**.
8. **Create the oversheath with 350mm LLFA® TAPE STRIPS:** Start wrapping from the centre, until 25mm before the cable oversheath. At this point lift the D-Loop Wire out of the way and continue wrapping until 25mm of the oversheath has been covered. Wrap twice around then let the unwrapped tape hang free, while placing the SMOOTH into position. Wrap with 50% overlap using the white line as a guide. Wrap with **MAXIMUM STRETCH** on the first layer and minimum stretch on the second.
9. **Mould 20mm LLFA® SMOOTH:** Place the SMOOTH on the wrapped cable under the D-Loop Wire and push the wire into the smooth. Mould the SMOOTH between and over the wires in this area. (This will be compressed by the tape to form a water tight seal.) Now continue wrapping, make two full turns before wrapping back towards the centre.
10. **Repeat step 8 and 9:** When starting a new strip, make sure that the starting edge is fully covered by successive wraps. Wrap with **MAXIMUM STRETCH** on the first layer and **MINIMUM STRETCH** on the second.

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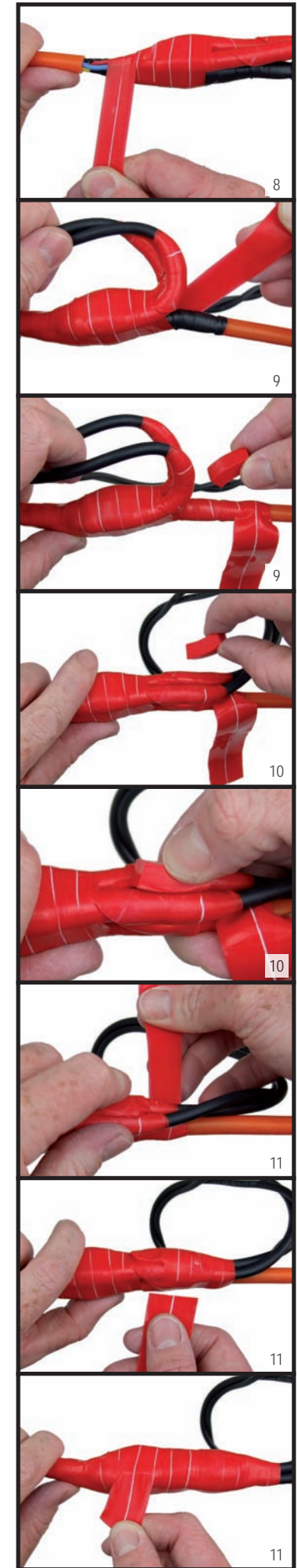
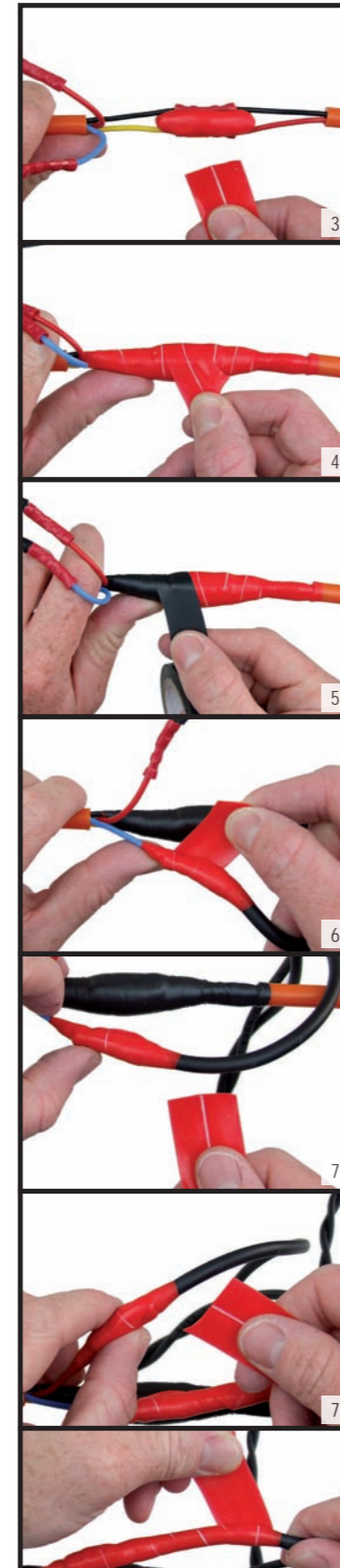


Y - LOOP APPLICATION

1. Clean hands before using LLFA®.
2. **CABLE PREPARATION:** Cutback the oversheath on both cables by 50mm. Strip the wires. Connect black to black and yellow to red. Connect the D-Loop Wires to the red and blue.
3. **30mm LLFA® SMOOTH:** Mould the straight through connectors into the SMOOTH.
4. **Wrap the 2 wires together - 350mm LLFA® TAPE STRIP:** Wrap with 50% overlap using the white line as a guide. Start in the centre. Wrap in one direction, over the wires up to the cable oversheath, then change direction and wrap back over the centre to the other side. End in the centre. When wrapping apply with constant tension. On the first layer apply **MAXIMUM STRETCH** (300%, ½ width, or until colour lightens).
5. **APPLY PVC TAPE** over the wrapped wires to prevent the outer layers fusing to the inner layers. (This will enable re-entry to the D-Loop Wires without damage to the inner wrap.)
6. **Wrap over each D-Loop connector with 130mm LLFA® TAPE:** Wrap over each of the D-Loop Wire connector. Begin wrapping in the centre of the connector; continue 25mm past the end of the connector, up the wire, before wrapping in the opposite direction. Do the same on the other side, and end in the centre. Apply **MAXIMUM STRETCH** to create a water tight seal.
7. **Wrap 50mm up each D-Loop Wire with 130mm LLFA® TAPE:** Wrap along the loop wire after each connector by an additional 50mm. This is necessary to create a water-tight seal at the point where the D-Loop Wires exit the joint. Apply **MAXIMUM STRETCH**.
8. **Create the oversheath with 350mm LLFA® TAPE STRIPS:** Start wrapping from the centre, away from the side with the exiting D-Loop wires. Wrap 25mm over the cable oversheath, wrap twice around before wrapping back towards the centre, finish in the centre. Wrap with 50% overlap using the white line as a guide. Wrap with **MAXIMUM STRETCH** on the first layer and minimum stretch on the second. When starting a new strip, make sure that the starting edge is fully covered by successive wraps.
9. **Lift and wrap under the D-Loop wires:** Lift the D-Loop Wires up 25mm before the cable oversheath. Continue wrapping 25mm past the start of the cable oversheath, wrap twice around then let the unwrapped tape hang free, ion.

Place the SMOOTH top Wires and push cond piece on top id over the wires in y the tape to form a

full turns before end in the centre.



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