

# Repair Kit

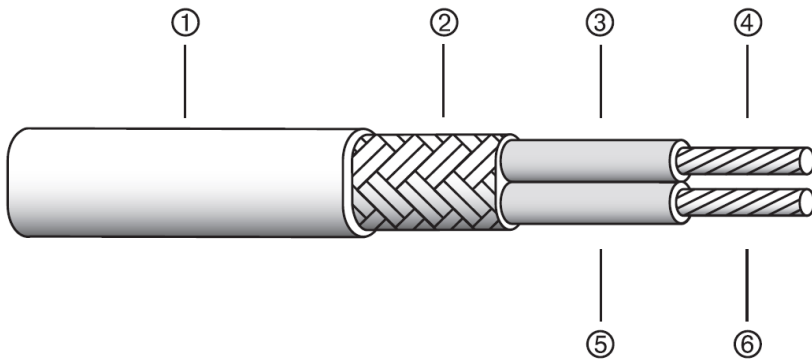
5270 Slimline Repair Kit for waterproof joining of underfloor heating connection wire or repair of underfloor heating element

# Repair Underfloor Heating Element



## WARNING:

All electrical work must conform to current wiring regulations and be carried out or checked by a qualified electrician. Turn off the electrical supply at the power distribution unit to avoid risk of electrical shock



1. Yellow insulation
2. Earth braid
3. Heating wire insulation 1
4. Multistrand heating wire 1
5. Heating wire insulation 2
6. Multistrand heating wire 2

The yellow heating element can be repaired at any stage of installation and after completion of floor finishing. It is important that the wire and surrounding areas are clean and kept free of dust during the repair process

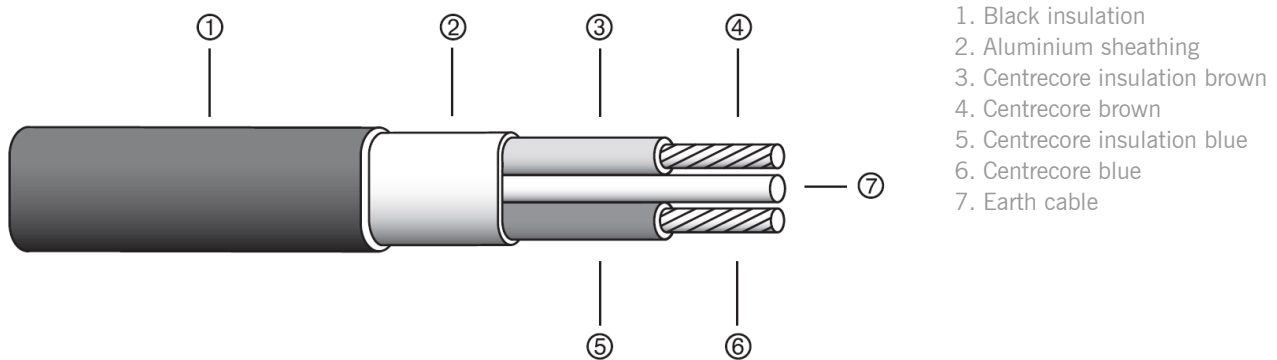
1. Strip back the yellow insulation by 30mm
2. Fold back the earth braid to reveal the centrecore with teflon insulation. Twist the earth braiding together
3. Strip back both teflon insulation layers by 10mm. Twist multistrand heating wire together individually
4. Prepare both the heating elements to be joined as above and slide the heat shrink sleeving over one of the wires
5. Insert the heating wire into one end of a red insulated butt connector and crimp. Insert the other heating wire into the opposite end of the other red butt connector and crimp as before
6. Insert the earth braid into one end of the red insulated butt connector and crimp. Insert the other earth braid into the opposite end of the red butt connector and crimp as before
7. Using a hot air gun, shrink the red butt connector insulation. Position the length of heat shrink sleeving centrally over the joint and shrink to seal
8. Using a multimeter, check the loop resistance ensure continuity of the centrecore and earth braid
9. Using an insulation tester, check the insulation safety of the centrecore and of the earth braid. Remember to disconnect the thermostat and any other electric controls before using the tester
10. Mark the location of the joint on the installation sketch if required
11. When tests are satisfactory completed, proceed with installation in accordance with the underfloor heating installation guide

# Join Connection Wire



## WARNING:

All electrical work must conform to current wiring regulations and be carried out or checked by a qualified electrician. Turn off the electrical supply at the power distribution unit to avoid risk of electrical shock



It is important that the wire and surrounding area are clean and kept free of dust during the connection process. Extra connection wire is available by the metre through your Thermonet distributor

1. Strip back the insulation by 30mm. Remove aluminium sheathing
2. Fold earth cable away from centrecore insulation. Twist earth strands together
3. Strip back the centrecore insulation by 10mm. Twist each centrecore together individually
4. Prepare both connection wires to be jointed, as above, and slide the heat shrink sleeve over one of the wires
5. Insert each centrecore into one end of a red butt connector and crimp using a crimping tool. Insert other centrecores into the opposite ends of the red butt connectors and crimp.
6. Insert the earth braid into one end of the red insulated butt connector and crimp. Repeat with other earth braid in opposite end of red butt connector and crimp.
7. Using a hot air gun, shrink the red butt connector insulation. Position the length of heat shrink sleeving centrally over the joint and shrink to seal
8. Using a multimeter, check the loop resistance ensure continuity of the centrecore and earth braid
9. Using an insulation tester, check the insulation safety of the centrecore and of the earth braid. Remember to disconnect the thermostat and any other electrical controls before using the tester
10. Mark the location of the joint on the installation sketch if required
11. When tests are satisfactorily completed, proceed with installation in accordance to the underfloor heating installation guide

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