



## Joint Repair Kit Guide for Warmup

### Floor Heating Systems

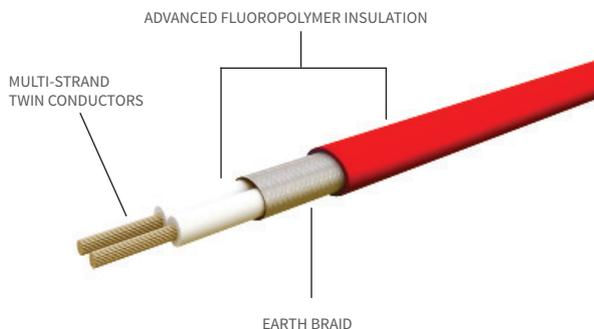
**Warranty Disclaimer:** This guide and the repair kit included have been provided by Warmup Inc. to aid in the repair of Warmup Mat & Loose Wire systems damaged on-site. Warmup cannot warranty the repair or guarantee the proper function of the heating system following a repair. Warmup recommends that all repair work be carried out by a qualified electrician and conform with current IEE Wiring Regulations. For any further assistance, please contact Warmup on 1-888-927-6333

**CAUTION:** Before commencing with the repair, ensure that the heating system has been completely disconnected from the power source.

#### Tools & Items Required for Repair

1. One Joint Repair Kit
2. Crimping Tool
3. Heat gun
4. Stanley knife / Wire strippers
5. Side cutters
6. Multimeter

#### Heating Wire Construction



## Product Resistance Check

### Warmup DWM Mat Systems

Model DWM-120V	Resistance	Model DWM-240V	Resistance
DWM-120-140	102.9	DWM-240-350	164.6
DWM-120-210	68.6	DWM-240-560	102.9
DWM-120-280	51.4	DWM-240-700	82.3
DWM-120-350	41.1	DWM-240-1050	54.9
DWM-120-420	34.3	DWM-240-1260	45.7
DWM-120-560	25.7	DWM-240-1540	37.4
DWM-120-700	20.6	DWM-240-2100	27.4
DWM-120-840	17.1	DWM-240-2520	22.9
DWM-120-1050	13.7	DWM-240-3080	18.7
DWM-120-1260	11.4	DWM-240-3240	17.8
DWM-120-1540	9.4		
DWM-120-1620	8.9		

### Warmup DCM-PRO System

Model DCM-C-120V	Resistance	Model DCM-C-240V	Resistance
DCM-C-120-65	221.5	DCM-C-240-195	296.0
DCM-C-120-130	110.8	DCM-C-240-325	177.2
DCM-C-120-195	73.8	DCM-C-240-390	147.7
DCM-C-120-260	55.4	DCM-C-240-525	109.7
DCM-C-120-325	44.3	DCM-C-240-655	87.9
DCM-C-120-390	99.4	DCM-C-240-785	73.4
DCM-C-120-525	27.4	DCM-C-240-920	62.6
DCM-C-120-655	22.0	DCM-C-240-1050	54.9
DCM-C-120-785	18.3	DCM-C-240-1180	48.8
DCM-C-120-920	15.6	DCM-C-240-1310	44.0
DCM-C-120-1050	13.7	DCM-C-240-1640	35.1
DCM-C-120-1180	12.2	DCM-C-240-1970	29.2
DCM-C-120-1315	11.0	DCM-C-240-2300	25.0
DCM-C-120-1445	10.0	DCM-C-240-2630	21.9
DCM-C-120-1575	9.1	DCM-C-240-2955	19.5
		DCM-C-240-3240	17.8

1

Slide the large heat shrink over the power supply cable (this will be needed to cover the final joint).



2

Slide the solder sleeve heat shrink over the heating element. (This will be needed to make the earth connection).



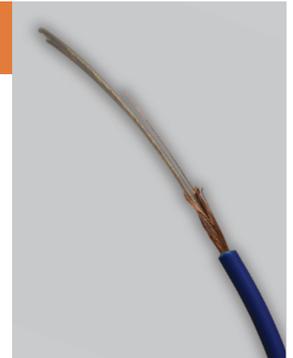
3

Strip back approximately 40mm of the outer insulation from the heating wire to expose the earth braid around the heating element cores.



4

Remove the surplus earth braid leaving approx. 10mm of the braid exposed.



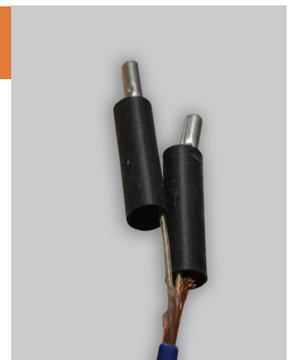
5

Cut back one of the cores so that the final crimped joints are staggered (this will reduce the thickness of the joint). Remove the inner insulation leaving approx 10mm of heating cores exposed.



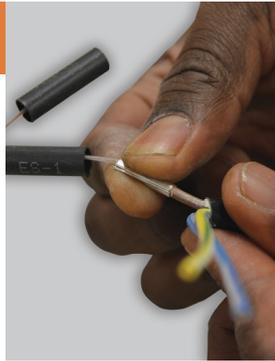
6

Attach a butt crimp to the heating cores, crimping once. Slide the small heat shrink over each core of the heating element.



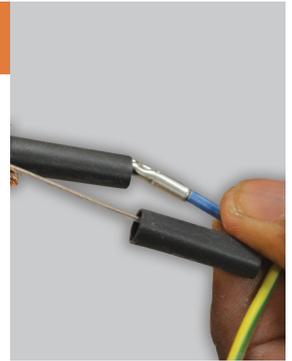
7

Attach the first heating element core to the live from the power supply cable, crimping once.



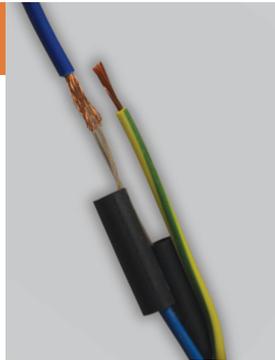
8

Line up the neutral and attach to the heating element core, crimping once.



9

The joint should now look like this. Conduct a resistance test to establish that there is a complete connection between the power supply cable and the heating element (see page 1 for ohm value).



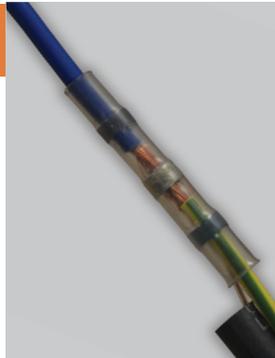
10

Line up the earth braid with the earth from the supply cable.



11

Position the solder sleeve over the earth wire and the earth braid.



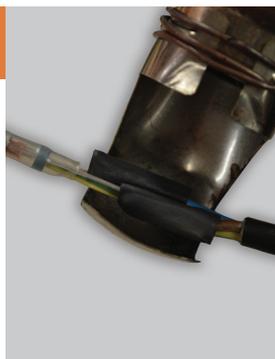
12

The joint should now look like this (re-test the heating element before activating the heat shrink).



13

Ensure solder sleeve covers the earths and that the small heat shrinks cover the entire crimp. Activate the heat shrink using a heat gun.



14

The completed joint should now look like this.



15

Slide the large heat shrink over the entire joint.



16

Activate the heat shrink using a heat gun.



17

The joint should now look like this.



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