

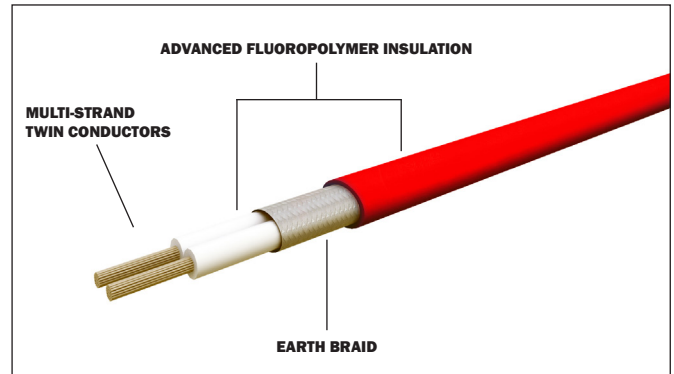
**Warranty Disclaimer:** This guide and the repair kit included have been provided by Warmup Inc to aid in the repair of a Warmup Loose Wire System (NADWS) or Heating Mat (NADWM) damaged on-site. Warmup cannot warranty the repair or guarantee the proper function of the heating system following a repair. Warmup recommends that all repair work be carried out by a qualified electrician in accordance with the National Electrical Code. For 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 End Cap Repair kit consisting of:
  - 1x Large end capped heat shrink
  - 1x Small heat shrink
  - 1x Small butt crimp
2. Crimping Tool
3. Heat gun
4. Stanley knife / Wire strippers
5. Multi meter

### HEATING WIRE CONSTRUCTION:



### TESTING OF THE HEATER DURING & AFTER REPAIR

Do not tile if the heater does not pass all the tests. There may be a problem with new joint or additional wire breaks. Actual value should be +/-10%.

Contact Warmup at 1-888-927-6333 for further assistance.

Model NADWS-120V	Resistance
NADWS-140-120	102.9
NADWS-210-120	68.6
NADWS-280-120	51.4
NADWS-350-120	41.1
NADWS-420-120	34.3
NADWS-560-120	25.7
NADWS-700-120	20.6
NADWS-840-120	17.1
NADWS-1050-120	13.7
NADWS-1260-120	11.4
NADWS-1540-120	9.4
NADWS-1620-120	8.9

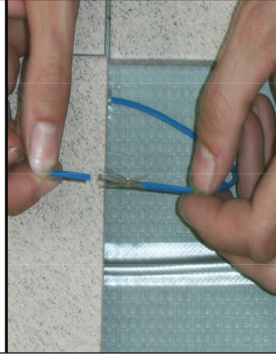
Model NADWS-240	Resistance
NADWS-350-240	164.6
NADWS-560-240	102.9
NADWS-700-240	82.3
NADWS-1050-240	54.9
NADWS-1260-240	45.7
NADWS-1540-240	37.4
NADWS-2100-240	27.4
NADWS-2520-240	22.9
NADWS-3080-240	18.7
NADWS-3240-240	17.8

Model NADWM-120V	Resistance
NADWM-140-120	102.8
NADWM-210-120	68.5
NADWM-280-120	51.4
NADWM-350-120	41.2
NADWM-420-120	34.3
NADWM-560-120	25.7
NADWM-700-120	20.6
NADWM-840-120	17.1
NADWM-1050-120	13.7
NADWM-1260-120	11.4
NADWM-1540-120	9.4
NADWM-1620-120	8.9

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NADWM-700-240	82.3
NADWM-1050-240	54.9
NADWM-1260-240	45.7
NADWM-1540-240	37.4
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NADWM-3080-240	18.7
NADWM-3240-240	17.8

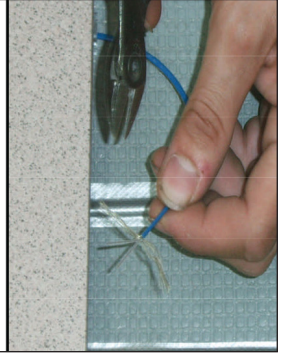
**1**

Using the Stanley knife or wire strippers remove approximately 20mm of the outer sheath to expose the earth braid.



**2**

Unravel the earth braid.



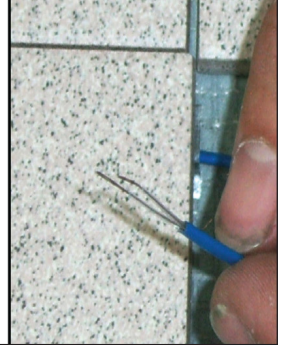
**3**

Cut back the earth braid so that you are left with the two cores of the heating element.



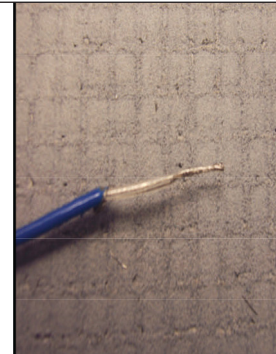
**4**

Using the Stanley knife or wire strippers, strip back approximately 7mm of the insulation



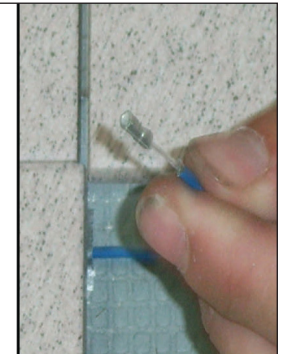
**5**

Twist both of the cores of the heating element together.



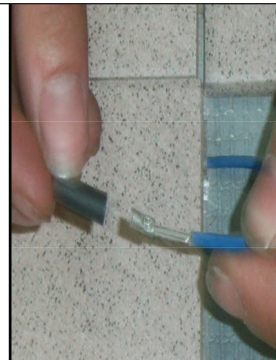
**6**

Attach the butt crimp to the heating cores using a crimping tool. Test the resistance using the multi-meter



**7**

Slide the small heat shrink over the butt crimp so any bare metal is covered.



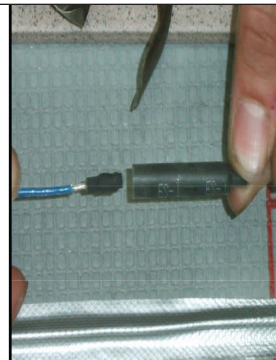
**8**

Shrink using a heat gun.



**9**

Slide over large end cap over the small heat shrink



**10**

Shrink using a heat gun. Repeat the resistance test on the heater.



**CONTACT US at 1-888-927-6333**

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