

ARCTIC TRACE[®]

INSTALLATION INSTRUCTIONS

Part Number 305CHAZ

Hazardous Location Water Proof Termination Kit.



ASSEMBLED END SEAL



305 END SEAL



METAL CRIMP RING



ETFE ARMOR ANCHOR



METAL ARMOR

WARNING: to prevent electric shock or fire, this product must be installed correctly. Water ingress must be avoided before and during the installation. Ground fault equipment protection must be used on each heating cable circuit as arcing may not be stopped by conventional circuit breakers. Before installing the product read the instructions completely. Do not use substitute parts or vinyl electrical tape.

Kit Contents

- 1 each 305C water proof end seal
- 1 each metal armor
- 1 each metal braid crimp ring
- 1 each ETFE braid anchor



Hazardous Locations 240V

Class I, Div. 2, Groups C, D; Class II, Div. 2,
Groups F and G; Class III
240Vac Maximum

Instruction Sheet P/N 305CHAZ Water Proof End Feminization

Tools needed:

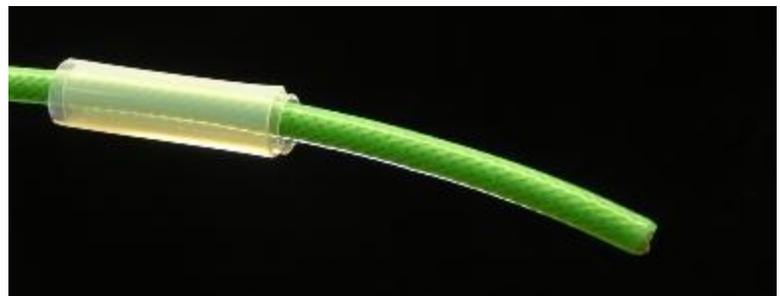
High temperature hot air heat gun,
Sharp clean wire cutting tool,
50 psig shop air supply,
206C or 207C pressure connector.



Cut heat trace to desired length using a sharp cutting tool



Carefully slip the ETFE braid anchor over the heating cable well passed the work area.



With a sharp blade carefully remove 8" of the ETFE over jacket from end to be sealed. Take care not to cut or damage the braid during this operation.



Hold the metal braid away from the work area and cut 3” off the end of the heating cable.



Place 305C Tefzel End Cap over wire end to be sealed, hold metal braid away from operation, and heat with high temperature hot air heat gun (part # 907). Do not use open flame. As End Cap is heated it will turn transparent and wire color will show though clearly. Continue to move heat around the End Cap until all sides are uniform and cable coating begins to ooze out from open end of End Cap. Allow End Cap to cool before next step

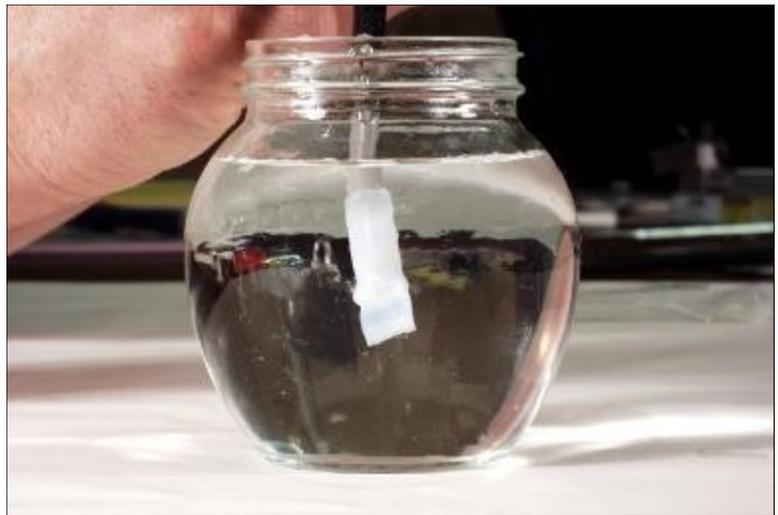


End Cap integrity test should now be done by pressurizing opposite end of heat trace with 60 psig air supply using pressure connector 352C.



Next submerging Tefzel End assembly in clean water. If no bubbles are present cap has been installed correctly. If bubbles are present repeat steps.

Never do this test with a hot end seal



Carefully pull metal braid back over end seal and fold down excess braid as shown.



Instruction Sheet P/N 305C Tefzel End Cap Continued

Slip the metal armor over the end cap and metal braid. Place with 1" extended passed end cap and tape down opposite end of metal armor using tape provided.



Slip ETFE anchor over tape and metal armor and remove tape.



Slip ETFE anchor back over armor as shown. Using a high temperature hot air heat gun part # 907 shrink the ETFE anchor in place securely holding the metal armor in place.



Do not use open flame. Allow braid anchor to cool before proceeding to next step.



Twist metal armor as shown. Slip metal crimp ring over metal armor as shown.



Crimp ring over metal armor using a suitable crimping tool and cut excess metal armor off as shown.



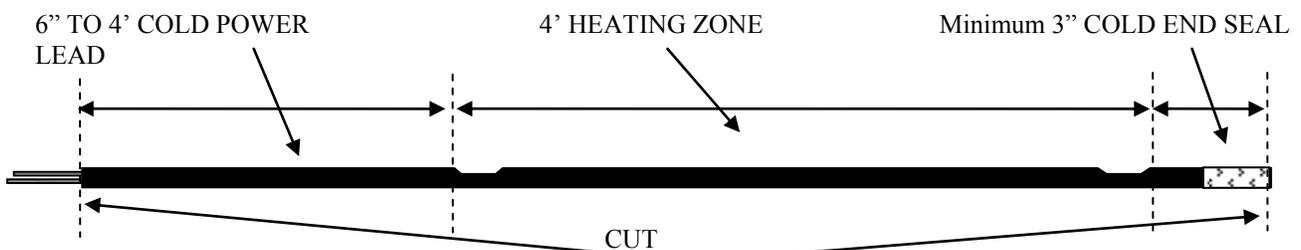
An insulation resistance test is recommended between the 2 buss wires and the braid. Test with 500 VDC megger minimum acceptable reading should be 20 megohms per circuit tested. Do not use a megger with an excess of 2500 VDC. If test fails check for faulty end cap installation or any heating cable damage.

When wire passes electrical test it may then be installed. Take care not to damage End Cap during installation.

If problem cannot be corrected do not connect wire to power supply

Arctic Trace® heating cables are constructed with multiple heating zones of various lengths depending on the voltage and watt per foot output. During assembly when a heating zone is cut, that length of heat cable becomes a cold lead and will not have a heating output. When making power connection or terminating the end of the heating cable care should be taken to assure the heating part of the cable contacts the process area to be heated. Heating zone spacing can be identified by a slight depression on the heating cables edge.

EXAMPLE



CAUTION

This product must only be installed by a qualified electrician, who fully understands electrical equipment placement, and must never under any circumstance be placed in service without the use of an adequate ground fault circuit interrupter to protect personnel from shock or injury.

After this equipment has been placed in service it must be tested to ensure all wiring and safety devices are working.

All National, State, and Local Electrical Codes must be followed.

If this product is not installed properly fire, death, or injury may result.

One Year Limited Warranty

du Alaska hereby warrants to the original purchasing consumer that its Arctic Trace heating cable is free from defects in material and workmanship for a period of one (1) year from the date of original purchase. du Alaska's obligation under the terms of this limited warranty shall be limited to repairing or replacing, at du Alaska's option, free of charge, F.O.B. from its factory, any part or parts of the Arctic Trace heating cable which in its sole judgment is found to be defective; and providing further that the claim be made within one (1) year from the date of original purchase and said part or parts be returned as directed by du Alaska at the time the claim is made.

This warranty applies to installations in the open ambient air. The warranty shall also apply to installation in clean water under a pressure of no more than 200 PSIG if the heat seal cap has been sealed to the wire by hot air gun welding in such a manner that no leak exists between the heat seal cap and the Cable Tefzel cover. No warranty whatsoever exists in any other installation or manner of installation.

All information concerning the product supplied by du Alaska is furnished upon the express condition that the customer shall make its own assessment to determine the product's suitability for a particular purpose.

WARRANTY EXCLUSIONS. *Except as expressly stated herein and to the fullest extent permitted by law, du Alaska shall not be liable for direct, indirect, incidental, consequential or other types of damages arising out of resulting from the purchase or use of the product. This Limited Warranty is in lieu of all other warranties, express or implied, specifically including, but not limited to, implied warranties of merchantability or fitness for a particular purpose.* The remedies under this warranty are only as set forth herein (except as to the extent they are required by any applicable laws) and du Alaska neither assumes nor authorizes anyone to assume for it any other obligations. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the foregoing limitations or exclusions may not apply to you. In such states, liability shall be limited to the extent allowed by state law. We do not warrant this product against normal wear and tear, unauthorized modifications or alterations, improper use, improper maintenance, accident, misuse, negligence, theft, loss or damage from outside causes.

Hazardous Locations Accessories:

352C	Hazardous Locations ¾" water proof strain relief pressure fitting.	TXR	Thermostat
EYS2116SP	Hazardous Locations seal off kit.	TXL	Thermostat
GUAT26C	Hazardous Locations poser connection kit	GU	Power Connection and splice Boxes
GUP	Hazardous Locations Junction boxes	FXC	Power Connection and splice Boxes
FXCS	Pilot Light	FXS	Tumbler Switches
305C HAZ	Hazardous Locations water proof end seal termination kit.	FXS	Ground Fault Interrupter
		FXB	Power Connection and Splice Boxes strain relief pressure fitting
		206C or 207C	Ordinary location water proof



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