# Heat Shrink Technology EKL

# Type 05-0091-0195

## Installation Instructions

Translation of the origin Installation Instructions

Language: EN

BARTEC

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# 1. About this Manual

## 1.1. Product Safety

The Heat Shrink Technology EKL is intended for use in industrial (non-explosive) atmospheres. It is built according to the State-of-the-Art and is safe to use. The following requirements must be met to ensure safe operation: careful system planning and transport; professional and careful installation, commissioning and maintenance.

The Heat Shrink Technology EKL may only be operated and used in accordance with its Intended Use and in compliance with this Installation Instructions and the applicable National Standards and authorizations.

**WARNING!**

**Risk of serious injury if used improper or misused**

Improper use of the Product may result in explosion, serious injury or death.

- Read and understand this Installation Instructions and Applicable Documents completely before using or installing the product.
- Observe personal safety, safety instructions and warnings.

## 1.2. Using the Installation Instructions

This Installation Instructions are part of the Heat Shrink Technology EKL. It is intended for safe and efficient handling of the Heat Shrink Technology EKL. It must be kept for further reference and made available near the product or the system. It must be available for all persons or parties involved at all times. If applicable, leave it with the end user.

Read this Installation Instructions carefully and completely before working with the Heat Shrink Technology EKL. You must read and understand the contents of the Installation Instructions thoroughly before installing, operating, using or servicing the product. This Installation Instructions must be passed on to future owners or operators if applicable.

The instructions, warnings and safety notes in this Installation Instructions are a prerequisite for safe working and must be observed as well as all Applicable Documents. Technical Data and all applicable National Standards must be also observed.

The Illustrations in this Installation Instructions are for basic understanding and may differ from the actual design of the product.

## 1.3. Symbols and Signs

The warnings are intended to protect from dangerous situations and property damage.

In this Installation Instructions the severity of possible hazards are indicated by the following kind of warnings:

**DANGER!**

**DANGER indicates an immediate danger to the life and health of persons.**

Failure to comply with this warning will result in serious injury or death.

**WARNING!**

**WARNING indicates an possible danger to the life and health of persons.**

Failure to comply with this warning may result in serious injury or death.

**CAUTION!**

**CAUTION indicates a possible danger to the health of persons.**

Failure to comply with this warning may result in injury.

**NOTICE!**

**NOTICE indicates the possibility of material damage.**

Failure to comply with this warning may result in damaging the product, surrounding products or the environment.

# 2. Safety

For safe installation of the
Heat Shrink Technology EKL the instructions, safety notes and technical requirements given in this Installation Instructions and the Applicable Documents must be followed.

Keep this Installation Instructions for future reference near the product or with the system documentation. If applicable, leave them with the end user or future owner.

- Replace any defective components before installation.
- Replace each defective component of the whole Electric Trace Heating System.
- Use only original BARTEC accessories and spare parts.
- Note the Applicable Documents listed below. It shows further important information who must be observed in addition to this Installation Instructions.

| Applicable Documents | |
|---|---|
| Junction Box types PBS/PBM for Heating Cables EMK/EKL | 01-3T00-7D0002 |
| Operating Instructions Heating Cable EKL light | 21-5820-7D0003 |
| Operating Instructions Heating Cable EKL medium | 21-5820-7D0001 |
| Storage conditions | 21-0000-7Q0001 |

## 2.1. Intended Use

The Heat Shrink Technology EKL is a connection technology for connecting or splicing heating cables types EKL light and EKL medium for use in industrial (non-explosive) atmospheres.

It can be used to create a connection between

- Cold Lead and Cold Lead
- Heating Cable and Heating Cable
- Cold Lead and Heating Cable

in a heating circuit EKL.

The Heat Shrink Technology EKL may be exposed to a maximum load of 4 joules during operation.

The Technical Data and Applicable Documents specified in this Installation Instructions must be observed and complied with.

## 2.2. Foreseeable Misuse

The following activities are a misuse of the product and are **not allowed**:

- Use of the Heat Shrink Technology EKL for purposes other than those described in the Intended Use
- Work on live parts or circuits without power OFF the corresponding Junction Box, heating cable or heating circuit
- Altering, removing or obscuring labels, signs or warnings
- Coating or painting the Heat Shrink Technology EKL
- Use of non-approved system components
- Commissioning of damaged or faulty system components or incomplete installation
- Unauthorized technical modification of the Heat Shrink Technology EKL

## 2.3. Personal Qualification

For System Planning, Installation, Commissioning, Operation, Maintenance and Disposal observe the requirements for personnel qualification according to DIN VDE 0100-series respectively CEI 60364-series or other locally applicable standards.

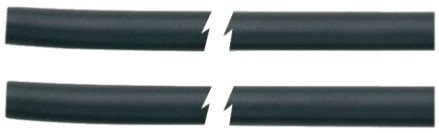
# 3. Technical Data

## 3.1. Operating Data

Following Operating Data applies to Heat Shrink Technology EKL:

| Specification | Value |
|---|---|
| Rated Voltage | max. 750 V |
| Rated Current | max. 25 A |
| Connection cross-section | max. 2.5 mm² |
| Outer diameter cold lead/heating cable | 2.9 mm to 6.0 mm |
| Mechanical load | max. 4 Joule (lt. EN 62395-1) |
| Operating temperature | -55 °C to +200 °C |
| Installation temperature | min. -20 °C |

## 3.2. Kit Contents

| Part, visuell | Part, name | No. of pieces | Length mm |
|---|---|---|---|
|  | Heat shrink tube A | 2 | 150 |
| | Heat shrink tube B | 4 | 40 |
| | Heat shrink tube C | 4 | 35 |
| | Crimp connector | 4 | 15 |

## 3.3. Accessories

**Crimp set for ECT35 / ECT45 and EKL**

*Set includes crimping clamp for butt connectors and butt connectors for heating cable EKL with 1.5 mm² to 10 mm² and 16 mm² to 25 mm²*

Catalog No.: CS_EKL
Part No.: 03-5545-0002

**Note:**

Using crimping insert size 1.5 mm – 2.5 mm

**Enclosure for heating cable EKL/EMK**

For connection of heating cable types EKL/EMK and up to three heating circuits. Usage in ordinary locations.

*Cable gland for power line: M25 / cable 6 mm² (clamping range 10 mm to 17 mm)*

*Threads for cable glands for heating circuits M20.*

*Single heating ciruit, M25 cable gland:*
Part No.: D7-3T77-1609/F001

*Double heating circuit, M25 cable gland:*
*Part No.:* D7-3T77-1609/F002

Triple heating circuit, M25 cable *gland:*
*Part No.: D7-3T77-2609/F001*

**Single-core series resistance heating cable EKL (Cold Leads)**

EKL cold lead non-Ex with M20x1.5 cable gland; 1.2 m length. For use with Heating Cable EKL.

*2.5 mm² for max. 32 A*
*4.0 mm² for max. 42 A*

Part No.: 05-0020-0492

Part No.: 05-0020-0491

# 4. Transport und Storage

The Heat Shrink Technology EKL consists of sensitive components. Transport the product carefully and protect it against damage, moisture, impacts and dirt.

Store Heat Shrink Technology EKL accordingly to the BARTEC storage conditions. See chapter 2. Safety - Applicable Documents.

**NOTICE!**

**System damage possible due to improper transport or storage**

- Transport and store the Heat Shrink Technology EKL carefully and in original packaging only
- Protect the Heat Shrink Technology EKL from damage (e.g. due to damage, moisture, impacts)
- Observe the BARTEC storage conditions

# 5. Installation

**WARNING!**

**Fire and electric shock hazard due to electrical trace heating system**

Risk of injury due to fire and electric current

- Before starting installation and maintenance work disconnect all circuits from the power supply and ensure that they are discharged
- Operate the electrical trace heating system with residual current device

The Heat Shrink Technology EKL is a connection technology for connecting or splicing heating cables types EKL light and EKL medium for use in industrial (non-explosive) atmospheres.

It can be used to create a connection between

– Cold Lead and Cold Lead
– Heating Cable and Heating Cable
– Cold Lead and Heating Cable

in a heating circuit EKL. An example of a Cold Lead to Cold Lead and Heating Cable to Heating Cable solution is the extension of an existing heating system EKL. An example of a Cold Lead to Heating Cable solution is the new installation of a heating system EKL in which the Cold Lead is used as a cold conductor and separates the Heating Cable from the junction box.

The electrical connection of the resistance heating conductor and the protective braid of the heating cable EKL is made using a crimp connection which is sealed with 2 or 3 layers of heat shrink tubing depending on version of heating cable EKL.

For better understanding in this Installation Instructions the installation steps describe the connection between Cold Lead and Heating Cable.

For installation between Heating Cable and Heating Cable replace the term “Cold Lead” in the installation steps with “Heating Cable” and follow for Heating Cable1 and Heating Cable2 accordingly.

For installation between Cold Lead and Cold Lead replace the term „Heating Cable“ in the installation steps with „Cold Lead“ and follow for Cold Lead1 and Cold Lead2 accordingly.

### Installation requirements

Ensure dry and clean pipe surface. If necessary dry and clean the pipe surface.

Install the Heat Shrink Technology EKL in dry condition. Keep dry during installation.

### Installation preparations

1. Find the crimp version to be used for each cold lead and each heating cable.
   For this select the cold lead and heating cable type to be installed in Table 1 or Table 2.
   Table 1 for heating cable type EKL light,
   Table 2 for heating cable type EKL medium.
   For crimp version see column 2.
2. Based on the crimp version to be used check if resistance heating conductor of the cold lead and heating cable shall be inserted directly into the crimp connector or if the resistance heating conductor shall be folded once or twice before inserted into the crimp connector.
   For crimp version note see column 3.
3. Follow the Installation steps (see Page 10). At certain installation steps observe the stripping dimensions for cold lead and heating cable. See Table 4 and Table 5.

*Table 1 Table Crimp versions, Heating cable type EKL light*

| Type of Heating cable/ cold lead | Crimp version | Crimp version note | Outer diameter cold lead/heating cable [mm] | Cross-section Resistance heat conductor [mm²] | Nominal resistance at 20 °C [Ω/km] |
|---|---|---|---|---|---|
| 27-5821-5A6A0007 | 1 | Resistance heating conductor inserting directly | 5.0 | 2.50 | 7 |
| 27-5821-5A6A0010 | 1 | | 4.4 | 1.80 | 10 |
| 27-5821-5A6A11R7 | 1 | | 4.3 | 1.50 | 11.7 |
| 27-5822-5A6A0015 | 1 | | 4.1 | 1.20 | 15 |
| 27-5822-5A6A17R8 | 1 | | 4.0 | 1.00 | 17.8 |
| 27-5822-5A6A0025 | 2 | Resistance heating conductor folding once | 4.0 | 0.98 | 25 |
| 27-5822-5A6A31R5 | 1 | Resistance heating conductor inserting directly | 4.3 | 1.54 | 31.5 |
| 27-5822-5A6A0050 | 2 | Resistance heating conductor folding once | 4.0 | 0.98 | 50 |
| 27-5822-5A6A0065 | 2 | | 3.8 | 0.75 | 65 |
| 27-5822-5A6A0080 | 2 | | 3.6 | 0.62 | 80 |
| 27-5822-5A6A0100 | 2 | | 3.6 | 0.50 | 100 |
| 27-5822-5A6A0150 | 2 | | 4.0 | 0.98 | 150 |
| 27-5822-5A6A0180 | 2 | | 3.6 | 0.56 | 180 |
| 27-5822-5A6A0200 | 2 | | 3.5 | 0.49 | 200 |
| 27-5822-5A6A0250 | 3 | Resistance heating conductor folding twice | 3.6 | 0.39 | 250 |
| 27-5822-5A6A0320 | 2 | Resistance heating conductor folding once | 4.0 | 0.92 | 320 |
| 27-5822-5A6A0380 | 2 | | 3.7 | 0.41 | 380 |
| 27-5822-5A6A0480 | 2 | | 3.8 | 0.46 | 480 |
| 27-5822-5A6A0600 | 2 | | 3.7 | 0.49 | 600 |
| 27-5822-5A6A0700 | 2 | | 3.6 | 0.42 | 700 |
| 27-5822-5A6A0810 | 2 | | 3.8 | 0.60 | 810 |
| 27-5822-5A6A1000 | 2 | | 3.8 | 0.48 | 1000 |
| 27-5824-5A6A1440 | 3 | Resistance heating conductor folding twice | 3.6 | 0.33 | 1440 |
| 27-5824-5A6A1750 | 3 | | 3.5 | 0.28 | 1750 |
| 27-5824-5A6A2000 | 2 | Resistance heating conductor folding once | 3.8 | 0.51 | 2000 |
| 27-5824-5A6A3000 | 3 | Resistance heating conductor folding twice | 3.6 | 0.35 | 3000 |
| 27-5824-5A6A4000 | 3 | | 3.5 | 0.26 | 4000 |
| 27-5824-5A6A4400 | 3 | | 3.4 | 0.24 | 4400 |
| 27-5824-5A6A5160 | 3 | | 3.4 | 0.21 | 5160 |
| 27-5824-5A6A5600 | 3 | | 3.4 | 0.19 | 5600 |
| 27-5824-5A6A6000 | 3 | | 3.4 | 0.18 | 6000 |
| 27-5824-5A6A7000 | 3 | | 3.4 | 0.15 | 7000 |
| 27-5824-5A6A8000 | 3 | | 3.4 | 0.13 | 8000 |

*Table 2 Table Crimp versions, Heating cable type EKL medium*

| Type of Heating cable/ cold lead | Crimp version | Crimp version note | Outer diameter cold lead/heating cable [mm] | Cross-section Resistance heat conductor [mm²] | Nominal resistance at 20 °C [Ω/km] |
|---|---|---|---|---|---|
| 27-5821-756G07R2 | 1 | Resistance heating conductor inserting directly | 4.9 | 2.45 | 7.2 |
| 27-5821-756G0010 | 1 | | 4.8 | 1.81 | 10 |
| 27-5821-756G11R7 | 1 | | 4.6 | 1.47 | 11.7 |
| 27-5821-756G0015 | 1 | | 4.4 | 1.16 | 15 |
| 27-5821-756G17R8 | 2 | Resistance heating conductor folding once | 4.3 | 1.00 | 17.8 |
| 27-5822-756G0025 | 2 | | 4.3 | 0.98 | 25 |
| 27-5822-756G0040 | 1 | Resistance heating conductor inserting directly | 4.4 | 1.25 | 40 |
| 27-5822-756G31R5 | 1 | | 4.6 | 1.54 | 31.5 |
| 27-5822-756G0050 | 2 | Resistance heating conductor folding once | 4.3 | 0.98 | 50 |
| 27-5822-756G0065 | 2 | | 4.1 | 0.75 | 65 |
| 27-5822-756G0080 | 2 | | 4.0 | 0.61 | 80 |
| 27-5822-756G0100 | 2 | | 3.9 | 0.49 | 100 |
| 27-5822-756G0150 | 2 | | 4.3 | 0.98 | 150 |
| 27-5822-756G0180 | 2 | | 4.0 | 0.56 | 180 |
| 27-5822-756G0200 | 2 | | 4.1 | 0.73 | 200 |
| 27-5822-756G0250 | 3 | Resistance heating conductor folding twice | 3.8 | 0.39 | 250 |
| 27-5826-756G0320 | 2 | Resistance heating conductor folding once | 4.2 | 0.92 | 320 |
| 27-5822-756G0360 | 2 | | 3.8 | 0.41 | 360 |
| 27-5826-756G0380 | 2 | | 4.1 | 0.77 | 380 |
| 27-5826-756G0480 | 2 | | 4.0 | 0.62 | 480 |
| 27-5826-756G0600 | 2 | | 3.9 | 0.49 | 600 |
| 27-5826-756G0650 | 2 | | 3.9 | 0.46 | 650 |
| 27-5826-756G0700 | 2 | | 3.8 | 0.42 | 700 |
| 27-5822-756G0810 | 2 | | 4.0 | 0.59 | 810 |
| 27-5822-756G1000 | 2 | | 3.9 | 0.48 | 1000 |
| 27-5822-756G1440 | 3 | Resistance heating conductor folding twice | 3.7 | 0.33 | 1440 |
| 27-5822-756G1750 | 3 | | 3.7 | 0.28 | 1750 |
| 27-5824-756G2000 | 3 | | 3.9 | 0.51 | 2000 |
| 27-5824-756G3000 | 3 | | 3.8 | 0.34 | 3000 |
| 27-5824-756G4000 | 3 | | 3.7 | 0.26 | 4000 |
| 27-5824-756G4400 | 3 | | 3.6 | 0.24 | 4400 |
| 27-5824-756G5160 | 3 | | 3.6 | 0.21 | 5160 |
| 27-5824-756G5600 | 3 | | 3.6 | 0.19 | 5600 |
| 27-5824-756G6000 | 3 | | 3.6 | 0.18 | 6000 |
| 27-5824-756G7000 | 3 | | 3.5 | 0.15 | 7000 |
| 27-5824-756G8000 | 3 | | 3.5 | 0.13 | 8000 |

*Table 3 Illustration Crimp versions*

| Crimp version | Crimp version note | Illustration Crimp versions |
|---|---|---|
| 1 | Resistance heating conductor inserting directly | |
| 2 | Resistance heating conductor folding once | |
| 3 | Resistance heating conductor folding twice | |

*Table 4 Stripping Dimensions Cold Lead*

| Crimp version | Stripping Dimensions Cold Lead [mm] | | | |
|---|---|---|---|---|
| | X | Y2 | Z | U |
| 1 | 50 | 50 | 25 | 7 |
| 2 | 57 | 50 | 32 | 14 |
| 3 | 71 | 50 | 46 | 28 |

*Table 5 Stripping Dimensions Heating Cable*

| Crimp version | Stripping Dimensions Heating Cable [mm] | | | |
|---|---|---|---|---|
| | X | Y1 | Z | U |
| 1 | 40 | 20 | 40 | 7 |
| 2 | 47 | 20 | 47 | 14 |
| 3 | 61 | 20 | 61 | 28 |

**Required tools**

– Crimping pliers

– Utility knife

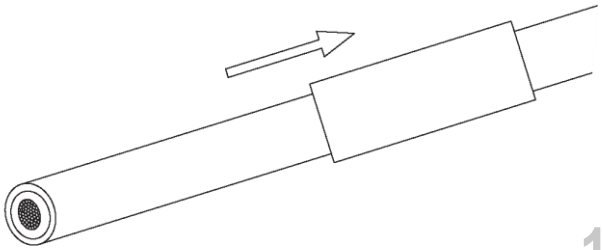
– Heat gun

– Wire cutters

– Ruler, tape measure

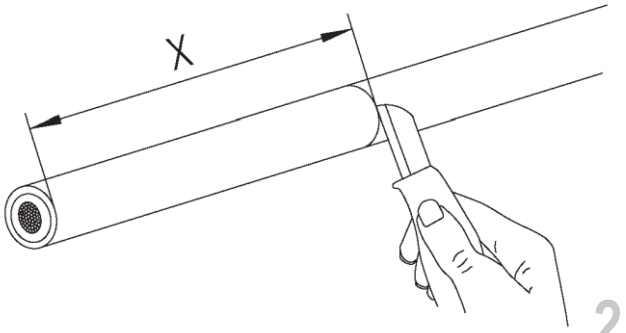
**Installation steps**

– Slide a heat shrink tube A onto the cold lead to be connected.
– For cold lead or heating cable diameter < 3.5 mm slide a heat shrink tube B additional onto the cold lead.



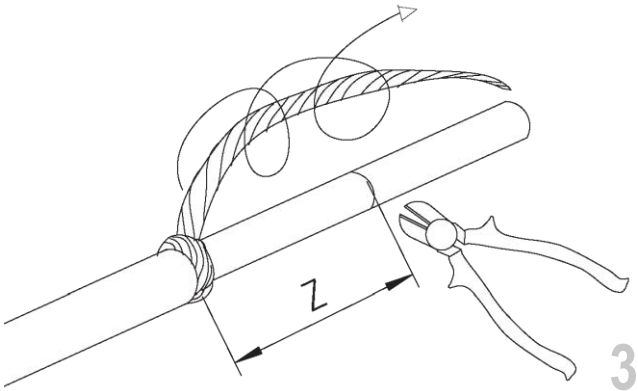
1

– Strip the outer jacket of the cold lead and the heating cable to the length X. See Table 4 and Table 5. Observe the crimp version.
Be sure not to damage the protective braid.



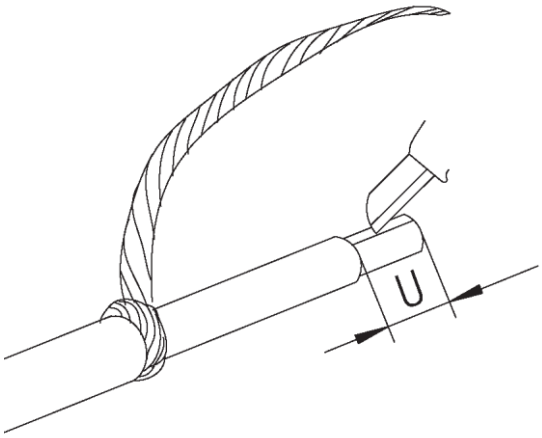

2

– Splice and twist the exposed protective braid of the cold lead and heating cable.
– Cut the Resistance heating conductor with insulating cover of the cold lead to dimension Z. See Table 4. Observe the crimp version.



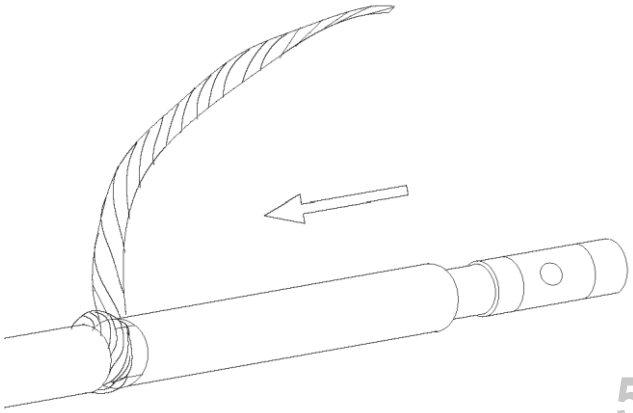

3

– Strip the insulation cover of the resistance heating conductor at cold lead and heating cable to dimension U. See Table 4 and Table 5.
Observe the crimp version. Be sure not to damage the resistance heating conductor.




4

– Observe the crimp version.
  If applicable fold the resistance heating conductor of the heating cable.
– Crimp the crimp connector onto the resistance heating conductor of the heating cable.
– Slide a heat shrink tube C onto the insulating cover of the heating cable.



5

**CAUTION!**

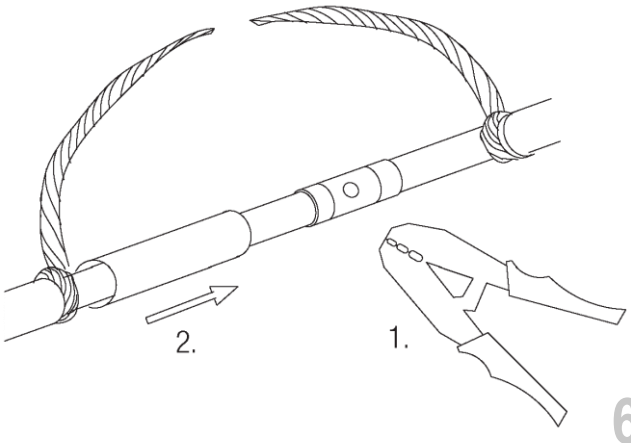
**Risk of burns from hot parts and hot air**

Risk of injury from hot parts and hot air

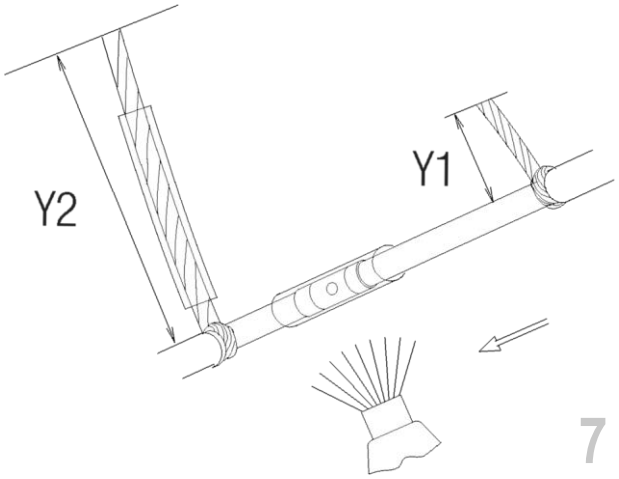
- Do not touch hot parts.
- Do not point the heat gun at people or body parts.
- Keep flammable and combustible materials away.

– Shrink the heat shrink tube C using a heat gun.
  Recommendation: Shrink temperature 320 °C
– Cut the twisted protective braid of the cold lead and/or the heating cable to dimension Y1 and/or Y2. See Table 4 and Table 5.
  Observe the crimp version.
– Slide another heat shrink tube C onto the twisted protective braid of the cold lead.

– Observe the crimp version.
  If applicable fold the resistance heating conductor of the cold lead.
– Crimp the crimp connector onto the resistance heating conductor of the cold lead.
– Slide the heat shrink tube C onto the middle of the crimp connector.




6

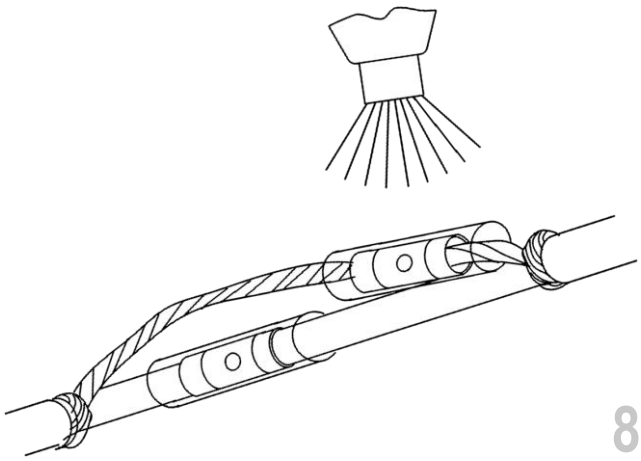



7

– Crimp another crimp connector onto the protective braid of the cold lead.
– Crimp the crimp connector onto the protective braid of the heating cable.
– Slide the heat shrink tube C onto the middle of the crimp connector.

**CAUTION!**
**Risk of burns from hot parts and hot air**
Risk of injury from hot parts and hot air
- Do not touch hot parts.
- Do not point the heat gun at people or body parts.
- Keep flammable and combustible materials away.

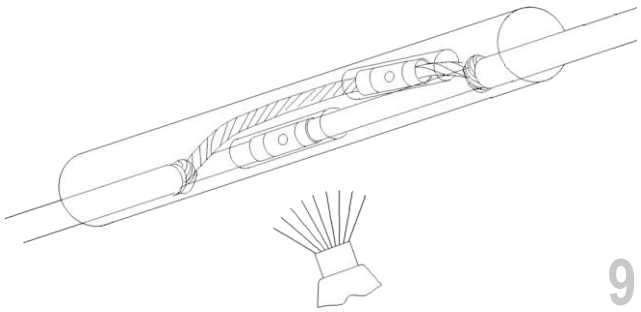
– Shrink the heat shrink tube C using a heat gun.
Recommendation: Shrink temperature 320 °C



8

**CAUTION!**
**Risk of burns from hot parts and hot air**
Risk of injury from hot parts and hot air
- Do not touch hot parts.
- Do not point the heat gun at people or body parts.
- Keep flammable and combustible materials away.

– If applicable, position a heat shrink tube B in the middle of the crimp connectors and shrink it using a heat gun.
Recommendation: Shrink temperature 200 °C
– Position the heat shrink tube A in the middle of the joining area and shrink the heat shrink tube A using a heat gun.
Recommendation: Shrink temperature 200 °C



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## 6. Commissioning

**WARNING!**

**Fire and electric shock hazard due to electrical trace heating system**

Risk of injury due to fire and electric current

- Before starting installation and maintenance work disconnect all circuits from the power supply and ensure that they are discharged.
- Operate the electrical trace heating system with residual current device.

Commissioning of the Heat Shrink Technology EKL allowed by qualified personnel only.
See chapter 2. Safety - Personal Qualification.

For Commissioning of the Heat Shrink Technology EKL ensure the following tests and tasks:

– Check for good condition and proper installation of mechanical and electrical installation
– Ensure an Insulation Resistance Measurement, see chapter 2. Safety - Applicable Documents

## 7. Operation

**WARNING!**

**Fire and electric shock hazard due to electrical trace heating system**

Risk of injury due to fire and electric current

- Prevent damage during operation.
- In case of damaged condition of any component of the heating system (junction box, heating cable, thermal insulation etc.) maintenance of the whole system is required. See chapter 8. Maintenance.

## 8. Maintenance

To ensure safe and smooth Operation of the Heat Shrink Technology EKL the regular Maintenance is necessary. Maintenance is allowed for qualified personnel accordingly to the Personal Qualification.

**WARNING!**

**Fire and electric shock hazard due to electrical trace heating system**

Risk of injury due to fire and electric current

- Before starting installation and maintenance work disconnect all circuits from the power supply and ensure that they are discharged.
- Operate the electrical trace heating system with residual current device.

The following inspections must be done regularly in accordance with the design specifications of the heating system. The inspection cycle begins with the Commissioning.

For Maintenance of the Heat Shrink Technology EKL ensure the following tests and tasks:

– Check for good condition of mechanical and electrical installation
– Check for damages of the heating system
– Ensure an Insulation Resistance Measurement, see chapter 2. Safety - Applicable Documents

In case of damages replace each damaged part of the heating system e.g. heating circuit, heating cable or Heat Shrink Technology EKL.

## 9. Disposal, Recycling

Disposing of the Heat Shrink Technology EKL properly in accordance with the legal regulations. It consists mainly of plastic/rubber and metall.

– Do not dispose of the Heat Shrink Technology EKL with household waste.

- Disposing of the Heat Shrink Technology EKL properly in accordance with the legal regulations.
- Do not dispose of the Heat Shrink Technology EKL with household waste.

# 10. Warranty

## Scope

BARTEC warrants that all BARTEC products and accessories that are the subject of this manual will be free from defects in materials and workmanship from and after its date of purchase for a period of 12 (twelve) months.

For the avoidance of doubt, this limited product warranty will **not** cover any damage caused by:

– accidents,
– misuse, improper installation, operation, maintenance or repairs,
– neglect, or
– alteration.

Furthermore, BARTEC cannot be held liable under this warranty for:

– installation or removal costs,
– loss or damage to property,
– indirect, special, incidental or consequential damages (including, without limitation, loss of revenue or anticipated profits), or
– any other damages or costs directly or indirectly related to the warranty issue.

If all warranty conditions are met (as set forth below), BARTEC will, at its sole discretion:

– repair the product,
– replace the product, or
– refund the purchase price paid for the product.

This warranty gives you specific legal rights, and you may also have other rights which vary by country, state or province. Except as specifically provided otherwise in this limited product warranty, the BARTEC Group General Terms and Conditions shall apply.

## General terms and conditions

BARTEC Global Terms and conditions are available at: https://bartec.com/general-terms-and-conditions-for-deliveries-and-services

## Conditions

The limited product warranty is subject to the following conditions:

– proper installation, operation and maintenance in compliance with the state of the technology and the product documentation, and
– presence of completely filled in acceptance reports for all installation, maintenance and repairwork operations.

## How to claim the warranty

To file a claim under the limited product warranty:

– Notify BARTEC or your local BARTEC representative by written correspondence or email within 30 days after identification of a possible warranty issue.
– If requested, you must provide any warranty-related information and documentation to BARTEC, including, without limitation:
– project planning documents, and
– acceptance reports for installation, operation, maintenance or repairwork.

## Contact

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Technical data subject to change without notice.

No claims for damage arising from alternations, errors or misprints shall be allowed.

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