



# Installation and Maintenance Manual

## HPS Terminator

## Preface

- Please read carefully and understand the contents of this manual.
- Failure to read the manual may result in serious injury, or serious damage to equipment.
- Make sure these instructions are always accessible for all users and ensure that you have read and understood the contents.

## Document Information

Name : **05\_CEDD\_HPS\_Terminator\_Installation\_Maintenance\_Manual\_03-70091**

For the latest version of this document see <https://www.tkh-airportsolutions.com/airfield-products/> or scan:



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# 1. About this manual

Because the number of CEDD fixtures and the length of the CEDD cable in a typical setup are variable, the characteristic impedance of the CEDD AGL system varies. This causes signal reflections at the end of the cable. These reflections can produce interference or power loss in the CEDD AGL system. To prevent these reflections a CEDD HPS Terminator is placed at the end of every CEDD cable.

The CEDD HPS Terminators delivered with a CEDD AGL system are adjusted for the characteristic impedance in that system, and are not interchangeable between CEDD AGL systems. The CEDD HPS Terminator also acts as a watertight seal of the CEDD cable end.

## 1.1 Symbols used

The following marking conventions are used in this manual to draw attention to specific topics or actions:



**DANGER!** - This sign indicates a hazardous situation that, if not avoided, will result in death or serious injury.



**WARNING** - This sign indicates a hazardous situation that, if not avoided, could result in death or serious injury.





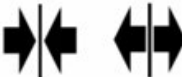



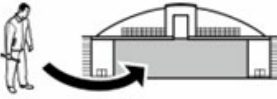


**CAUTION** - This sign indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



**NOTICE** - is used in this manual to indicate a situation that could result in damage to property or equipment.

The following symbols are used in pictures for explanation or an action:

Correct / Incorrect 	Look / See 	Location / position 	Movement 
Connect / Disconnect 	Photobiological safety 	ESD warning 	
Work carried out on runway 		Work carried out in workshop 	

The following symbols are used on equipment and in this manual to warn of potential hazards:



**DANGER of electrical shock or arc flash.** Failure to observe this warning will result in serious injury or death.



**WARNING or CAUTION:** where this symbol is used on the equipment, it is mandatory to consult the manual to find out the nature of potential hazards and any actions which have to be taken to avoid them.

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## 1.2 Storing the manual

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- This manual is a part of your product. Store the manual in a location that can be easily accessed by personnel working on the product.
- It is the responsibility of the company operating this equipment to ensure that its personnel is provided with a copy of this manual.

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## 1.3 Limitations of the Document

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TKH Airport Solutions reserves the right to revise this document without notification.

The data provided in this document is based on the most recent information at the time of publication. TKH Airport Solutions is continually seeking to ensure that its products are developed to the latest technological standards. As a result, it is possible that there may be some differences between the product and the information in this manual.

For further information regarding adjustment, maintenance or repair which is not described in this document, please contact the Customer Service department of TKH Airport Solutions.

The information in this document concentrates solely on use of the products as intended by the manufacturer.

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## 1.4 Terms and Abbreviations

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This document may include the terms and abbreviations as listed below.

AGL	Airfield Ground Lighting
BUID	Terminator Unique Identification
CEDD®	Contactless Energy and Data Distribution
EASA	European Aviation Safety Agency
HPS	High Power System
ICAO	International Civil Aviation Organization
IEC	International Electrotechnical Committee
LED	Light Emitting Diode
NUID	Node Unique Identification

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## 1.5 Trademarks

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CEDD® is a registered trademark of USE System Engineering Holding B.V. in the European Union. Other product names mentioned may be trademarks of TKH Airport Solutions B.V., USE System Engineering Holding B.V., or their affiliated companies.

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## 1.6 Liability and Warranty

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TKH Airport Solutions cannot be held responsible for injuries or damage resulting from non-standard, unintended use, faulty or improper installation of its equipment, or failure to follow the instructions and safety guidelines in this manual. The safety of any system incorporating the CEDD HPS Terminator is the responsibility of any site installation, commissioning, maintenance, and operational personnel using the system.

### NOTICE

Disregarding the safety instructions in this manual will result in the loss of warranty in case of damage.

Refer to the general TKH Airport Solutions Terms and Conditions document supplied with your sales order contract for a complete liability and warranty description.

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## 1.7 Manufacturer Details

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### TKH Airport Solutions

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- Internet: [www.tkh-airportsolutions.com](http://www.tkh-airportsolutions.com)

For service requests, please contact the TKH Airport Solutions Customer Service department:

- Email: [service@tkhairportsolutions.com](mailto:service@tkhairportsolutions.com)

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## 2. Safety

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When performing installation, maintenance or service activities, always carry out these activities with the greatest caution to avoid injuries or damage to the CEDD HPS Terminator. All activities may only be performed by qualified and authorized personnel (see below). It is the responsibility of those in charge of preparing and/or supervising such work to take the necessary actions to ensure safe working conditions.

Always work safely and comply with procedures, regulations and local standards. If any of the warnings or safety requirements in this document are in conflict with existing local regulations, then the strictest regulation must take precedence.

Thoroughly read and observe all safety instructions in this document.



**WARNING**

**WARNING:** Disregarding the safety instructions in this manual could result in serious injury or death.

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### 2.1 Qualified Personnel

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Only qualified and authorized personnel are allowed to install, operate or maintain this equipment.

The term 'qualified personnel' is defined here as individuals who thoroughly understand the equipment and its safe installation, operation or maintenance. Qualified personnel are physically capable of performing the required tasks, are familiar with all relevant and local safety rules and regulations, and have been trained to safely install, operate or maintain the equipment. It is the responsibility of the company installing, operating or maintaining this equipment to ensure that its personnel meet these requirements.

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### 2.2 Intended Use

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The CEDD HPS Terminator is designed and intended only for the purpose of Airfield Ground Lighting (AGL) at airfields and airports as described in this manual. The CEDD HPS Terminator is placed at the end of each CEDD cable and prevents signal reflections that can interfere with the connection or cause power loss. It also acts as a watertight seal of the CEDD cable end.

Any other usage that is not described in this manual is considered unintended use. Unintended use includes but is not limited to the following actions:

- allowing unskilled personnel to perform any task on or with the equipment
- making changes to the equipment that have not been recommended or described in this manual or using parts that are not approved by TKH Airport Solutions.
- using materials or auxiliary equipment that are inappropriate or incompatible with TKH Airport Solutions equipment.
- failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards, provided that they are not in violation of national regulations.



**WARNING**

**WARNING:** Using this equipment in ways other than described in the manual could result in serious injury or death and/or material damage.

## NOTICE

**NOTICE:** The CEDD HPS Terminator may only be used with CEDD system components approved by TKH Airport Solutions:

It is not allowed to connect the CEDD HPS Terminator to other cables than the CEDD cables approved by TKH Airport Solutions.

The CEDD HPS Terminator must be installed in a watertight metal enclosure (for example a 12" shallow base with cover plate) approved by TKH Airport Solutions.

Do not interchange CEDD HPS Terminators between CEDD AGL systems.

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## 2.3 General safety rules

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Become familiar with the general safety instructions in this section of the manual before installing, operating, maintaining or repairing this equipment.

- Make this manual available to personnel installing, operating, or maintaining this equipment.
- Only qualified personnel are allowed to install, operate or maintain this equipment (see Qualified Personnel on page 8).
- Always use the required personal protective equipment (PPE).
- Never look directly in the light source while the fixture is switched on.
- Always follow safe electrical work practices.
- Follow all applicable safety procedures required by your company, industry standards and government or other regulatory agencies.
- Read all system component manuals before operating this equipment. A thorough understanding of system components and their operation will help you to operate the system safely and efficiently.
- Do not deactivate or bypass automatic safety interlocks or locked-out electrical disconnects.
- Protect equipment with safety devices as specified by applicable safety regulations.
- Use this equipment only in the environments for which it is rated.
- Never install or operate equipment with a known malfunction. If a malfunction occurs, turn the equipment OFF immediately.
- Always de-energize the CEDD AGL system before working on any component.
- In any of the following cases the equipment must be taken out of service and locked away from unauthorized use. This is necessary:
  - If the housing or the electrical wiring is visibly damaged
  - If the housing or the electrical wiring has loose parts
  - If the equipment malfunctions
  - after storage under unfavourable circumstances (for example outdoors or in moist environments)
  - After excessive transportation stress (for example in damaged or defective packaging)

## 2.4 Electrical hazards

The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing.

When installing this equipment always follow these safety rules:



Switch the power supply **OFF** at the location of the CEDD HPS Basestation when any installation, maintenance or replacement is done on the CEDD HPS Terminator.

The use of a disconnecting device is mandatory. The **OFF** position at the location of the CEDD HPS Basestation must be clearly marked and the disconnection device must be easily accessible. A switch or other disconnecting device for functional purposes may be provided.

Never open the equipment while the power supply is switched ON.

Never touch exposed electrical connections on this equipment while the power supply is switched ON.

Do not attempt to operate or service electrical equipment if standing water is present.

When working on the equipment always wear appropriate protective clothing.

This equipment contains electrostatic sensitive devices that can be damaged by an electrostatic discharge.



Protect the equipment from electrostatic discharge.

Before touching any component of the cabinet, bring your body to the same potential as the cabinet by touching a conductive earthed part of the cabinet.

Electronic modules or components must not be brought in contact with highly insulating materials such as plastic sheets or synthetic fiber clothing. They must be laid down on conductive surfaces.

When installing or de-installing the equipment, follow the additional safety instructions in Chapter Installation Safety on page 16 and Chapter Maintenance Safety on page 22.

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## 2.5 Transport and Storage

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- If the equipment is stored before installation, it must be protected from the weather and kept free of condensation and dust.
- Keep the equipment in the original packing it was shipped in, until it is going to be installed.

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## 2.6 Installation and Maintenance

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Read the safety instructions in Chapter Installation Safety on page 16 and Chapter Maintenance Safety on page 22 before installing or maintaining the CEDD HPS Terminator.

### 3. About the CEDD HPS Terminator

#### 3.1 About CEDD

CEDD is an innovative contactless energy and communication technology. Energy and data transport are combined in a two-wire cable system, a Terminator, and contactless user points. With this structured cable concept, lighting on airfields can easily be installed or replaced without making electrical contact with the power or data cable.

The CEDD system has been specifically designed for the operation of Airfield Ground Lighting (AGL) systems on airports, with the highest possible reliability.

#### 3.2 About the CEDD HPS Terminator

Because the number of CEDD fixtures and the length of the CEDD cable in a typical setup are variable, the characteristic impedance of the CEDD AGL system varies. This causes signal reflections at the end of the cable. These reflections can produce interference or power loss in the CEDD AGL system. To prevent these reflections a CEDD HPS Terminator is placed at the end of every CEDD cable.

The CEDD HPS Terminators delivered with a CEDD AGL system are adjusted for the characteristic impedance in that system. The U20-##### number on the smaller label (see example below right) identifies the CEDD AGL system to which it is adjusted. The Value indicates the capacitance.



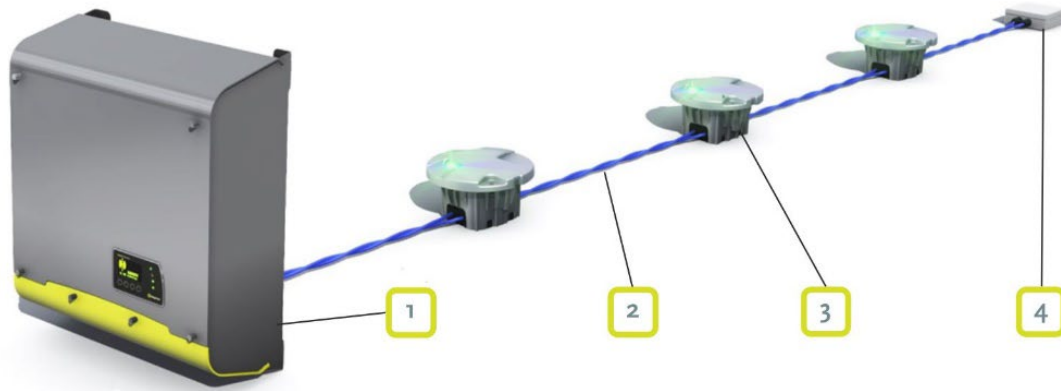
The CEDD HPS Terminator also acts as a watertight seal of the CEDD cable end. The CEDD HPS Terminator is connected to the CEDD cable during in-field installation. The exact location will be somewhere in or near the pavement.

#### NOTICE

Do not interchange CEDD HPS Terminators between CEDD AGL systems. Each HPS Terminator is adjusted for a particular CEDD AGL system. Unauthorized interchanging of the HPS Terminators will interfere with proper functioning of the CEDD AGL system.

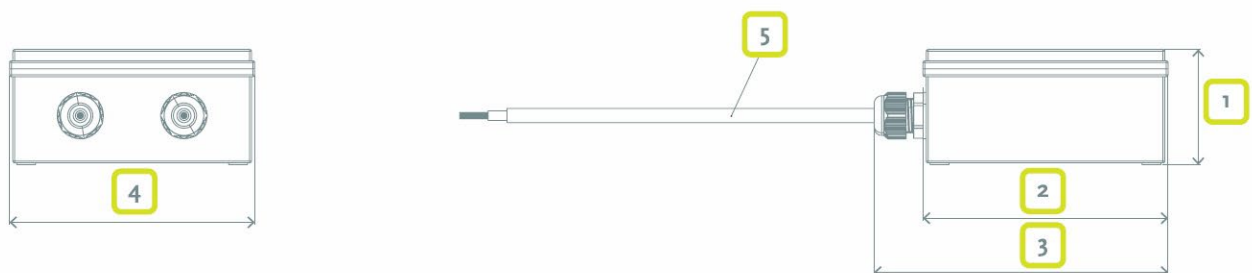
### 3.2.1 Position in the CEDD AGL System

A typical CEDD AGL System consists of a CEDD HPS Basestation (1) that provides power to the CEDD AGL LED fixtures (3) and bi-directional communication to all the CEDD AGL LED fixtures connected to the CEDD cable (2). A CEDD HPS Terminator (4) matches the correct characteristic impedance of the CEDD cable with the connected CEDD AGL LED fixtures.



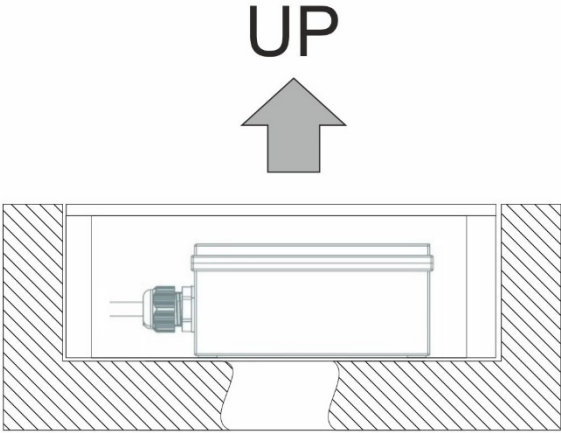
### 3.2.2 Dimensions

CEDD HPS Terminator		
Pos.	Description	Values
1	Height	60 mm
2	Length without cable glands	130 mm
3	Length with cable glands	≤ 162 mm
4	Width	130 mm
5	CEDD cable	950 mm



### 3.3 Operation Information and Specifications

The CEDD HPS terminator must be mounted in a 12" shallow base or a metal closure. The CEDD HPS Terminator is intended for outdoor use only and suited for use in wet locations for dedicated airfield installation. General operation information can be found below or on the datasheet of the CEDD HPS Terminator. In case not mentioned, other specifications are compliant with IEC 61010-1 section 1.4.1 Normal Environmental Conditions.

Technical Specifications	
Maximum voltage	650 V <sub>ms</sub>
Cable current	0 to 5 A <sub>rms</sub> Typical at 3.5 A <sub>rms</sub> and typical at 20 kHz
Ambient operating temperature	-40°C (40°F) / +75°C (+167°F) @ I <sub>CEDD</sub> = 3.5 A <sub>rms</sub>
Dust and water tightness:	IP 68 (IEC 60529)
Pollution Degree	3 (IEC 61010-1)
Weight:	Approx. 1.6 kg
Operation position: (note: drawing is indicative only)	

#### 3.3.1 More Information

- For all technical data refer to the datasheet for your product at <https://www.tkh-airportsolutions.com/airfieldproducts/> or scan:
- If you have any questions about installation or maintenance, please contact TKH Airport Solutions Customer Service on [service@tkh-airportsolutions.com](mailto:service@tkh-airportsolutions.com).



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## 4. Inspection

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Before installation, the transport box and CEDD HPS Terminator must be inspected for damage and defects.

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### 4.1 Inspect the transport box

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If the transport box appears to be damaged, keep the transport box and cushioning material until the contents of the box have been checked for completeness, and the CEDD HPS Terminator has been checked mechanically and electrically.

#### NOTICE

If the CEDD HPS Terminator has been damaged during transport, put the product and all other parts back into the transport box and contact your shipper and carrier.

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### 4.2 Inspect the contents of the transport box

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The transport box must contain the following items:

- CEDD HPS Terminator
- 2 CEDD Cable kits; each kit, in a sealed bag, contains:
  - 1 compression connector
  - 1 cold shrink tube
  - 1 Vinyl Mastic Tape strip
  - 2 cleaning wipes
- CEDD HPS Terminator Installation and Maintenance Manual 03-70091 (this manual)
- Factory Acceptance Test Report 03-70103

Inspect the contents of the transport boxes. If any item is missing, contact TKH Airport Solutions Customer Service: [service@tkh-airportsolutions.com](mailto:service@tkh-airportsolutions.com).

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### 4.3 Visually Inspect the CEDD HPS Terminator

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Unpack and inspect the CEDD HPS Terminator and accessories. If there is any mechanical damage or defect, contact TKH Airport Solutions Customer Service: [service@tkh-airportsolutions.com](mailto:service@tkh-airportsolutions.com).

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## 5. Installation

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This chapter contains instructions for mounting the CEDD HPS Terminator.

Before installing the CEDD HPS Terminator read the Installation Safety instructions below.

### NOTICE

Disregarding these safety instructions will result in the loss of warranty in case of damage. TKH Airport Solutions is not liable for any injuries to personnel or any equipment damage.

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### 5.1 Installation Safety

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### WARNING

The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing. See De-energizing Procedure on page 17.

High voltage may still be present in the system after switching off. Wait for at least 15 minutes before starting installation.



### WARNING

The CEDD AGL system must be installed in a restricted access area.

In any of the following cases the equipment must not be installed and must be kept out of reach from unauthorized use:

- if the CEDD cable or HPS Terminator is visibly damaged
- after storage under unfavourable circumstances (for example, outdoors or in moist environments)
- after excessive transportation stress (for example in damaged packaging)
- if the equipment is not in the original packaging

### NOTICE

Do not open the CEDD HPS Terminator. Opening the device may damage the product irreparably and will void the warranty.

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## 5.2 De-energizing Procedure

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### WARNING

Use appropriate personal protective equipment during the de-energizing procedure.


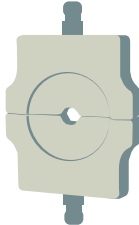
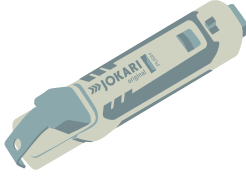

Use equipment suitable for >1000 V.

Do not assume that a capacitor is adequately discharged until it has been tested.

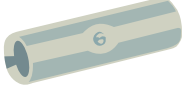



1. Switch off the CEDD HPS Basestation and lock out the switch to prevent accidental re-activation.
2. Wait 15 minutes.
3. Use a suitable voltmeter to measure the DC voltage across the capacitor.
4. If the voltage level is below 1 VRMS/VDC it is safe to disconnect the CEDD HPS Terminator.
5. Short the cable ends (towards the CEDD HPS Basestation).

### 5.3 Installation Tools and Materials

#### Tools needed

			
Crimping tool (e.g. Klauke - EK354ML)	Crimping tool insert (e.g. Klauke - HD4/6)	Cable knife	Pair of scissors

#### Materials included in the CEDD Cable Kit

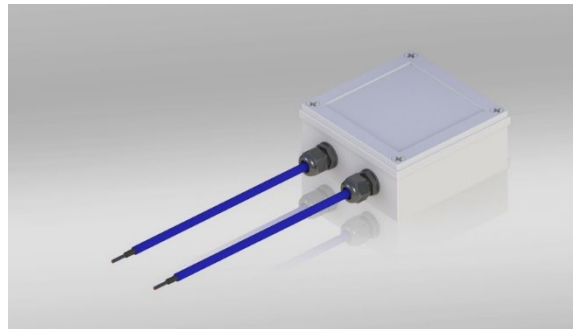
			
Compression connector 6 mm <sup>2</sup> according to DIN 46267 (Klauke-121R)	Vinyl Mastic Tape strip 38 x 160 mm (3M - VM386)	2 Cleaning wipes	Cold shrink tube (3M - EPDM 8423-6)

#### NOTICE

Additional cable kits for repairing or extending CEDD cables can be ordered directly from TKH Airport Solutions, order code: U20-00499.

## 5.4 Installation Instructions

This section describes how to connect the CEDD HPS Terminator to the end of the CEDD cable.



### NOTICE

Make sure the copper wires do not show any signs of discoloration. This could indicate oxidation of the cable's core.

To connect the equipment, follow the steps below:

1. Use a voltmeter to check that the CEDD AGL system is de-energized. If it is not, follow the De-energizing Procedure on page 17.
2. Record the U20-number from the label on the underside of the CEDD HPS Terminator.
3. Remove the cable caps.
4. Remove 35 mm (C+D) of the outer jackets from the cable ends (A) and (B)<sup>1</sup> and remove the insulation for 15 mm (D) at both ends of the cable.



### NOTICE

Do not damage the copper wires.

5. Clean both cable jackets for a length of 45 mm (A) with a cleaning tissue.



6. Mark each cable jacket at a distance of 80 mm (A) from the end of the cable.



<sup>1</sup> One of the cable ends is the cable connected to the CEDD HPS Terminator.

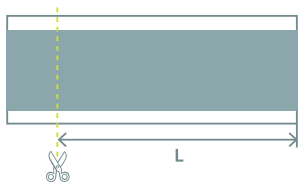
- Slide the EPDM cold shrink tube (A) around one of the cables. Pull the loop on the zip core (B) to release the loose end of the core (C).



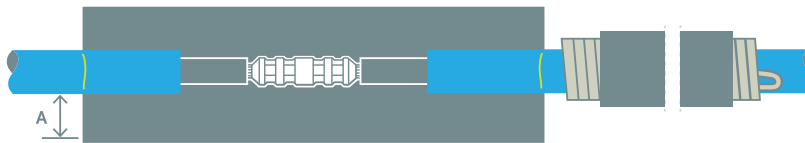
- Push one of the two cable ends into the Compression connector (A) and use the crimping tool to crimp it at position 1 and 2. following the sequence of crimp indents shown below. Repeat for the second cable end and crimp at position 3 and 4.



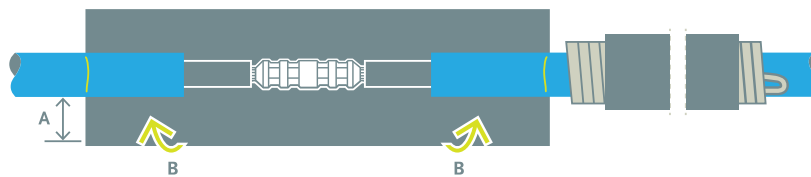
- Cut a 160 mm (L) pad of VM tape and remove the liner<sup>2</sup>.



- If necessary, clean the cable jackets again. Place the compression connector in the center and at 10 mm (A) from the bottom of the tape. The ends of the tape should match the marks made in step 6.



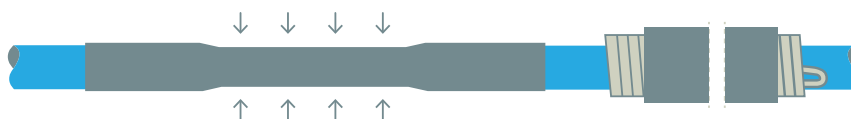
- Fold (B) the short pad side (A) around the cables without folds or wrinkles.



- Roll the cables over the tape pad or fold the pad around the cable until the tape pad covers the cables evenly.



- Press the VM tape firmly around the cable.



<sup>2</sup> When using the CEDD Cable kit the tape is already cut to the right length.

14. Move the cold shrink tube (A) over the VM tape.



Make sure the cold shrink tube covers the VM tape completely to prevent water ingress.

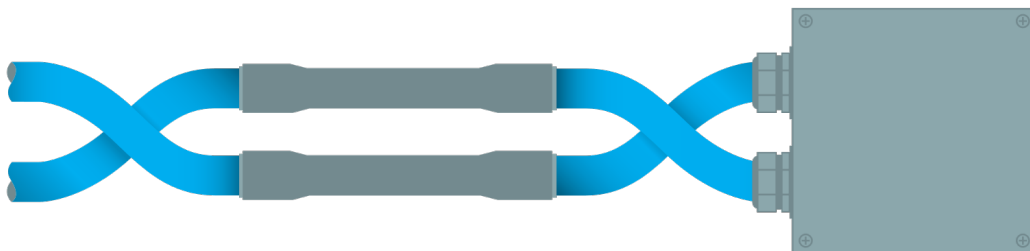
15. Hold the cold shrink tube and cable firmly with one hand and unwind the zip core (A) in a counter clockwise direction with the other hand.



16. Continue shrinking until the cold shrink tube is fully shrunk.



17. Repeat steps 4 to 16 for the other cable.



It is important that the 2 cables are twisted, as shown above.

18. The CEDD HPS Terminator may now be installed in a 12" shallow base with cover plate and O-ring, or other watertight metal enclosure.



Avoid damaging the cable jackets on sharp edges when feeding the CEDD cables through the shallow base.

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## 6. Maintenance

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There are no serviceable parts inside the CEDD HPS Terminator. The CEDD HPS Terminator does not require any preventive maintenance. Repairs in the field are not allowed.

When it is necessary to replace the CEDD HPS Terminator it should be de-installed and returned to TKH Airport Solutions Customer Service.

### NOTICE

Before de-installing the CEDD HPS Terminator read the Safety Instructions below.

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### 6.1 Maintenance Safety

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Before you begin, read these warnings carefully.



The CEDD AGL system components (e.g. CEDD cable, CEDD AGL LED Fixtures, and CEDD HPS Terminator) should not be touched or worked on if the CEDD AGL system is operational (meaning constant current AGL series circuit energized). The constant current AGL series circuit must be de-energized before any (maintenance/service) work on the CEDD AGL system and its components can start. Before any work can start the CEDD HPS Basestation must be switched off, and must be protected against accidental re-energizing. See De-energizing Procedure on page 17.



### WARNING

High voltage may be present after switching off the CEDD HPS Basestation. Wait for at least 15 minutes after de-energizing before working on the equipment.

### NOTICE

Do not open the CEDD HPS Terminator. Opening the device may damage the product irreparably and will void the warranty.

## 6.2 Replacing a CEDD HPS Terminator

### NOTICE

When you remove a CEDD HPS Terminator from the CEDD AGL system, it is important to record the U20-number from the label on the underside of the CEDD HPS Terminator. The replacement CEDD HPS Terminator must have the same U20-number to match the characteristic impedance of this CEDD AGL system

To safely disconnect and remove the CEDD HPS Terminator, follow the steps below:

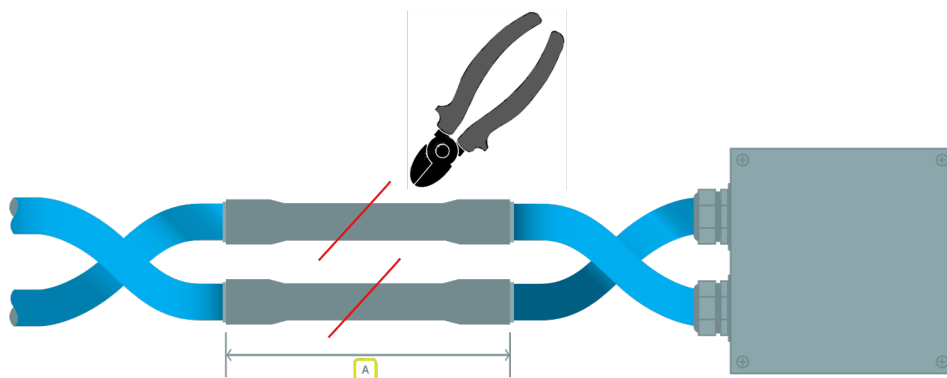
1. With a voltmeter, check that the CEDD AGL system is de-energized. If not, follow the De-energizing Procedure on page 17.



### WARNING

Wait for at least 15 minutes after switching off the CEDD Basestation before you start to work on the CEDD HPS Terminator.

2. Cut the CEDD cables using insulated cable-cutting pliers.



3. Remove the tape, shrink tube, and crimped part of the cables.
4. Clean the cable ends with a cleaning tissue.
5. Do one of the following:
  - If you are going to replace the CEDD HPS Terminator, follow Installation Instructions on page 16.
  - If the CEDD AGL circuit will remain out of service, place a cap over each cable end.



### NOTICE

Additional cable kits for repairing or extending CEDD cables can be ordered directly from TKH Airport Solutions, order code: U20-00499.

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## 7. Taking Out of Service

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1. De-install the CEDD HPS Terminator as described in Replacing a CEDD HPS Terminator on page 23.
2. Contact TKH Airport Solutions Customer Service ([service@tkh-airportsolutions.com](mailto:service@tkh-airportsolutions.com)) if you need to return a CEDD HPS Terminator.

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### 7.1 Disposal

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All electrical and electronic products must be disposed of separately from normal waste at the end of their useful life.

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### Company profile:

TKH Airport Solutions is an innovator in airfield ground lighting, offering a complete range of LED AGL products. We build upon the know-how from a long and successful tradition of pioneering developments in the AGL and connectivity industry. Being part of the TKH Group, our company can build on a history of more than 90 years in smart connectivity, energy distribution and AGL.

#### More information:

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