

Primary Connector Kit (PRK) installation instructions

Safety precautions

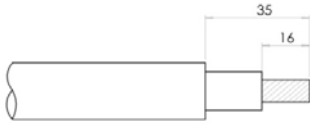

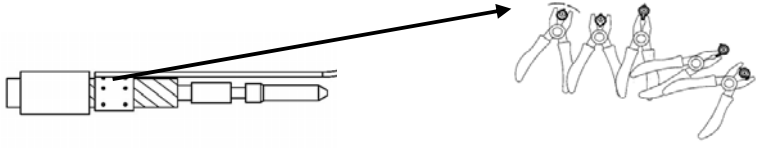

- **AGL equipment should be installed only by competent personnel.**
Operating and maintenance personnel should refer to IEC standard 61821, ICAO Airport Services Manual Part 9, "Airport Maintenance Practices" and to FAA Advisory Circular AC 150/5340-26 "Maintenance of Airport Visual Aid Facilities" for instructions on safety precautions. Personnel must always observe the safety regulations. The equipment has been designed and manufactured to allow safe and secure operation, however, the listed rules must be strictly observed.
- **Prior to installation and disconnection de-energize all cables and equipment.**
- **Inspect all parts for rating and compatibility.**

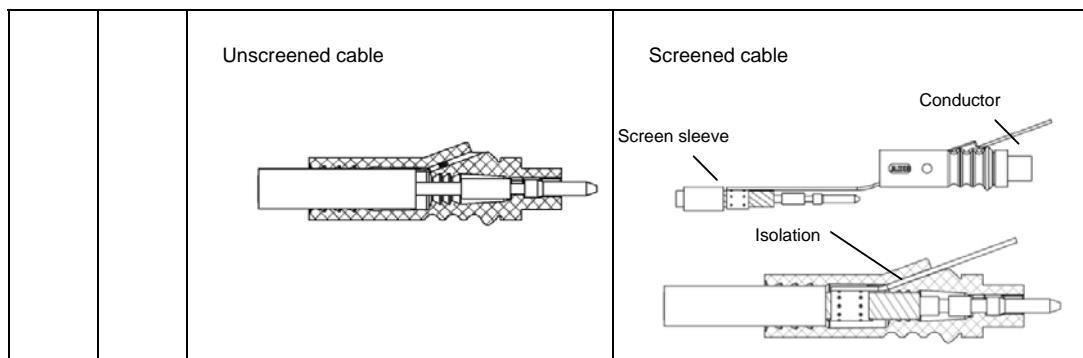
Selection table

A watertight connection is only assured if properly installed as instructed in this manual and the dimensions of the cables / wires match the connector type as listed in below table

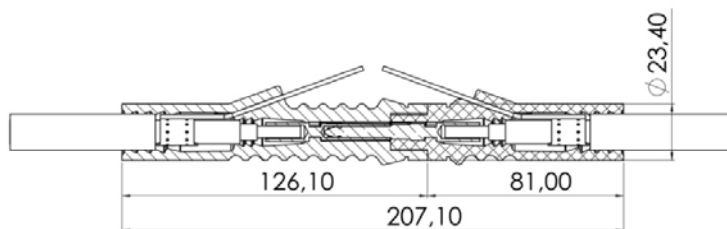
Cable type	Outer diameter	Conductor size	Connector kit Type
Screened = S Unscreened = U	Cable 8.0 – 11.5mm = 1 Cable 10.0 – 14.5mm = 2 Cable 14.0 – 18.5mm = 3	AWG 6 or 10mm ² = A AWG 8 or 6mm ² = B	PRK – x – y – z Cable type _____ Outer diameter _____ Conductor size _____

Assembly of Cable in connector kit

Sequence		Description								
Un-screened cable	Screened cable									
1	1	Clean the cable end to be inserted into the connector kit housing over some 15 mm (6") to 20 mm (8") with a solvent.								
2	2	Strip the cable as shown in the drawings below: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Unscreened cable</p>  </div> <div style="text-align: center;"> <p>Screened cable</p>  </div> </div>								
3	3	Crimp the conductor into the pin and receptacle of the kit. Recommended crimping tools <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Connector type</th> <th>Crimping tool</th> <th>ADB order nr</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Primary only</td> <td>TBM-25-S</td> <td>8981.13.010</td> </tr> <tr> <td>Hydr.35.KN (+AWG6 & 8)</td> <td>8981.13.015</td> </tr> </tbody> </table>	Connector type	Crimping tool	ADB order nr	Primary only	TBM-25-S	8981.13.010	Hydr.35.KN (+AWG6 & 8)	8981.13.015
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	4	Gradually press the screen sleeve around the cable screen as shown below. Apply Grease at the cable/receptacle assy and if available the earth conductor and its transparent sleeve [The transparent sleeve has to be positioned closest to the crimped ring]. 								
4	4	Slide the above cable/pin or cable/receptacle assy into the respective connector housings. For the receptacle, use the plastic "paw" as a guide in order not to harm material the housing:  <p>In case of screened cable, make sure that the conductor connected to the screen sleeve is pushed through the isolation as shown below. Note: For a good, watertight connection, make sure to perform this assembly y in one smooth single sequence. <i>Repeated sliding in both directions may jeopardize the water tightness.</i></p>								



Assembly of plug and receptacle



1. While making electrical contact between plug and receptacle, air captured between the two parts of the water seal may resist complete insertion. This is especially the case when one or both parts are lubricated. To overcome the phenomenon proceed as follows:
 - a. Fold a piece of paper or electrical tape (with adhesive sides together)
 - b. Place inside the receptacle and insert the plug.
 - c. Pull out the folded paper or tape.
2. Apply 2 layers of self vulcanizing tape (Scotch 23, 130C or similar) around the joint of the connectors, ½ overlapped, extending at least 25 to 38mm (1 to 1 ½”) in order to keep it dry and clean, and hence preventing water and dirt being drawn into the water seal when the connector gets separated. Wrap another layer of electrical tape (Scotch 33+ or equivalent - e.g. heat shrink sleeve) over the rubber tape.

Disconnection

To separate plug and receptacle, remove the tape and pull apart without bending. Do not pull on the cables.

Warranty

N.V. ADB S.A. guarantees that the performance of the products described in this manual, when sold by ADB or its licensed representatives, meets the requirements of ICAO Annex 14, Volume 1, and FAA specification AC 150/5345-26.

Any defect in design, material or workmanship, which may occur during proper and normal use over a period of two (2) year from date of shipment, will be repaired or replaced by ADB free of charge, ex works. Operational failure resulting from lamp burnt out, improper maintenance or installation, damage due to runway maintenance equipment, snow ploughs or aircraft arresting gear hooks is not considered a result of proper use and is beyond the scope of the warranty.

Warranty does not cover natural wear and tear nor damage arising after delivery owing to faulty or negligent handling, excessive strain, unsuitable materials for operation, deficient civil engineering work, unsuitable soil conditions, and such chemical, electrochemical or electrical influences as were not assumed at the time of the contract.

All liability for consequences of any inexpert alterations or repairs carried out by Purchaser or a third party shall be waived.

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Use restriction notice

This manual has been compiled with all possible care and in view of providing a valuable and practical tool to the Airport Installation and Maintenance personnel.

We encourage customers to address us their comments and proposals for improving further the contents of this manual.

Communications should be addressed to ADB's representative in your country or to ADB's "After Sales department":

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