

Fig.1: PRK



# Primary Connector kits

Type PRK



## Compliance with standards

**FAA:** AC 150/5345-26 (L-823) current edition

**ICAO:** Aerodrome Design Manual Part 5, Electrical System

## Use

Designed for a detachable watertight connection between the series airfield lighting cable and the primary winding of the series transformer. The connectors permit a rather fast mounting on site without prior study of cable lengths

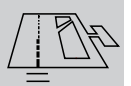
## Overview

1. Single-pole connector kits for unscreened cable:  
FAA L-823 class B style 3 plug and style 10 receptacle.
2. Single-pole connector kits for screened cable:  
FAA L-823 class B style 3 plug and style 10 receptacle

## Features

- Complete range covering all currently available cable dimensions (conductor sizes and outer diameters).
- Most modular design: housing suitable for both screened and unscreened cable.
- Superior mechanical design, matching with all presently existing connector types.
- Isolation resistance up to 20 times better than thermosetting elastomeric materials.
- Dielectric strength 15 % better than Neoprene.
- Water absorption factor 3 times lower than Neoprene and other thermosetting elastomeric materials used for connectors.
- Excellent water tightness characteristics throughout the entire temperature range from  $-55^{\circ}$  to  $+55^{\circ}\text{C}$  in spite of the wide application range.
- Very good resistance against most various chemicals used on the airside.
- Wide application range covered by a minimum number of different kits (only 12 different types).
- Supplied ready for immediate use in individual packing, including instruction manual.
- Can be used with so-called "Super"-connectors.
- Ergonomic shape eases connection and de-connection.

Fig. 2



## Ordering code

Primary connector kit	_____	PRK S 2 A
Cable type	_____	
unscreened cable = U	_____	
screened cable = S	_____	
Outer diameters	_____	
8.0 – 11.5 mm = 1	_____	
11.0 – 14.5 mm = 2	_____	
14.0 – 18.5 mm = 3	_____	
Section of conductor (stranded)	_____	
10 mm <sup>2</sup> or AWG 6 = A	_____	
6 mm <sup>2</sup> or AWG 8 = B	_____	

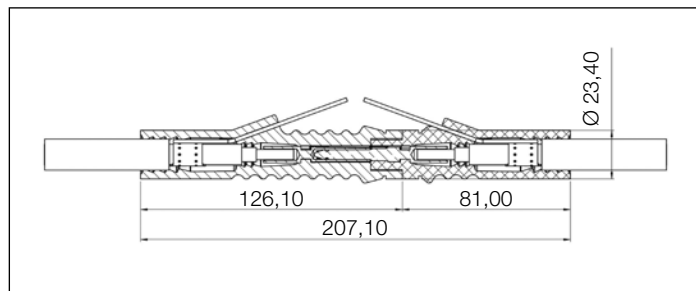


Fig. 4: Outline dimensions

## Suggested specification

Primary connector kits shall be in full compliance with the latest edition of FAA AC 150/5345-26 specification for L-823 Type I class B style 3 and 10 connectors. The compliance is essential to ensure a perfect fit with the connectors of the series transformers.

They shall be made from the same thermoplastic elastomeric material as the opposite connector of the series transformers or primary cables. The length of the connector plugs and receptacles shall be 210 mm max.

The pins and sockets shall be made from respectively nickel and tin plated (5 micron min.) copper, partially annealed to be crimped to the cable conductors.

Connector kits shall be assembled by skilled technicians supervised by a specialist to ensure that electrical, mechanical, environmental and water tightness properties meet or exceed the standard requirements.

**Also available:** Resin filled primary connector kits for (un-) screened cable type CKE 52. These connector kits offer the advantage of a permanent connection of the connectors to the cable AND being detachable.



Fig. 3: CKE 52 primary connectors

## Conditioning

Primary connector kits are consisting of a male and a female connector packed in plastic bags ready for use.

Net weight:

- Connector kit for unscreened cable: 100 gr.
- Connector kit for screened cable: 114 gr.

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