

Primary Connector kits

Type PRK

Fig. 1 PRK



Compliance with standards

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

ICAO: Aerodrome Design Manual Part 5, Electrical System

Application

Designed for a detachable watertight connection between the series airfield lighting cables and the primary cable connectors of the series isolation transformer. The connectors permit a fast connection on AGL field site series circuits.

Types

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° to +55°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.

Ordering Code

Application

PRK = Primary Kit

Cable type

U = Unscreened

S = Screened

Outer diameter

1 = 8.0 - 11.5 mm

2 = 11.0 - 14.5 mm

3 = 14.0 - 18.5 mm

Section of conductor (stranded)

A = 10 mm² or AWG 6

B = 6 mm² or AWG 8

Fixed digits

00000

Revisions

0 = First release

P R K X X X 0 0 0 0 0

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 1 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.

Transformers and Cables

Primary Connector kits



Fig. 2: Package Contents

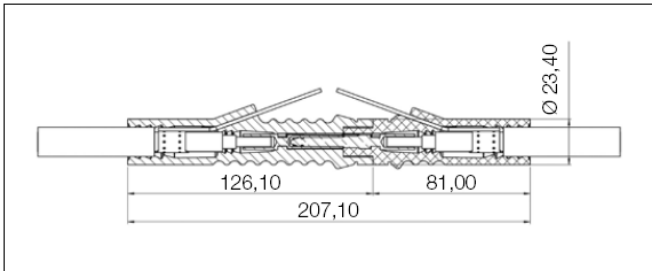


Fig. 3: Outline dimensions applicable for both type of kits (non-screened & screened cable)

Conditioning

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