

Type SCK

Secondary Connector Kits

Compliance with standards

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

ICAO: Aerodrome Design Manual Part 5, Electrical Systems

Uses

Designed for watertight connection of the secondary series circuit cables to either the secondary winding of the series transformer or the light. The connectors permit a relatively fast mounting on site without prior study of cable lengths.

Overview

- Two-pole connector kits for two single-core wires:
FAA L-823 class B style 4 plug and style 11 receptacle.
- Two-pole connector kits for one two-core cable:
FAA L-823 class B style 5 plug and style 12 receptacle

Features

- Isolation resistance up to 20 times better than thermosetting elastomeric materials,
- TPE Santoprene 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°C 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,
- Supplied ready for immediate use in individual packing, including instruction manual.



Ordering Code

Connector Type

SCK = Secondary connector kit

Cable type

1 = 2-core cable

2 = 2 separate wires

Plug or receptacle:

P = Plug

R = Receptacle

Outer diameters

A = Cable 8.5 – 13.5 mm

B = Cable 11.5 – 18 mm

S = Wire 2.8 – 4 mm

T = Wire 3.8 – 5.5 mm

Section of conductor (stranded)

2 = 1.5 – 2.5 mm² or AWG 12 – 16

5 = 4 – 6 mm² or AWG 8 – 10 = 5

SCK X X X X

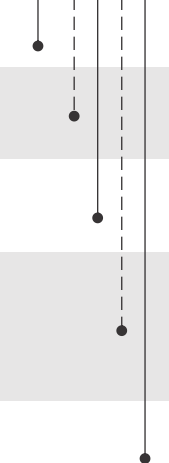


Fig. 2

Accessories

Table 1: Recommended crimping tools

Connector Type	Crimping Tool	Part Number
Secondary only	Channel lock	8961.05.210
Primary and secondary	WZ 18	8981.13.005

TRANSFORMERS & CABLES

Type SCK

Packaging

Connector kits are individually packed in plastic bags.

Net weight: Connector kit male: 58 gr.
 Connector kit female: 49 gr.

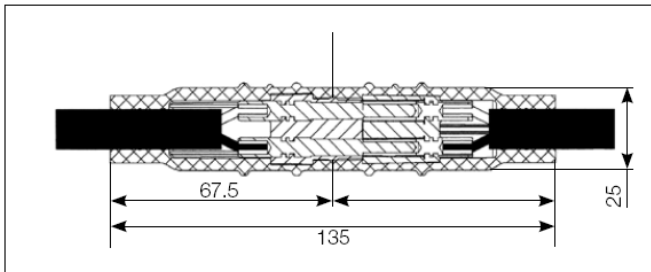


Fig. 3: Dimensions SCK in mm

Suggested Specification

Secondary connector kits shall be in full compliance with the latest edition of FAA AC 150/5345-26 specification for L-823 Type II, class B, style 4, 5, 11 and/or 12 connectors. The compliance is essential to ensure a perfect fit with the connectors of the light units or series transformers. They shall be made from the same thermo-plastic elastomeric material as the opposite connector of the lights or series transformers. The length of the connector plugs and receptacles shall be 67.5 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.