



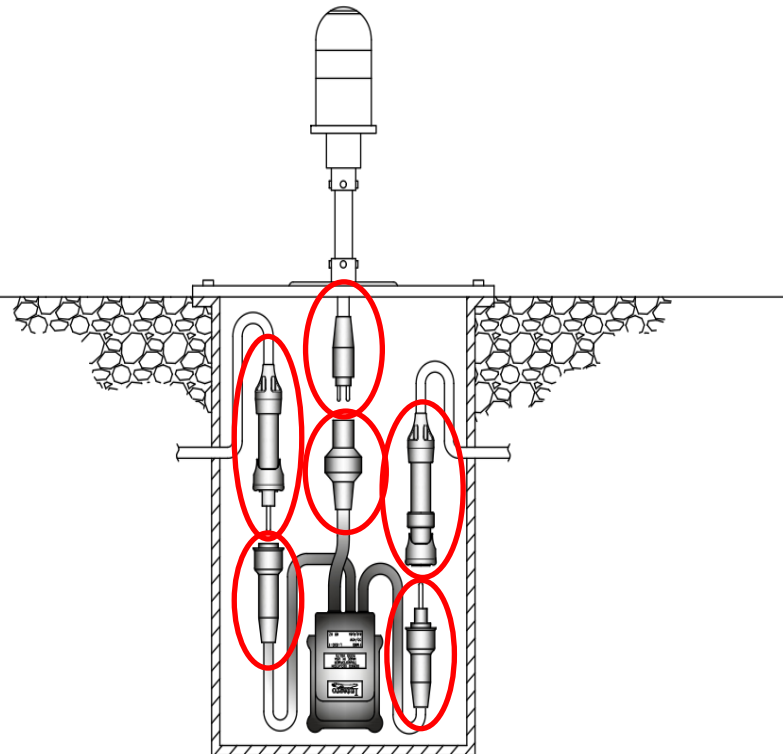
PRODUCT TRAINING

Installation of the “Complete Kit”

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L-823 CONNECTORS TYPES AND USES



Primary Connectors

Style 2

Style 9

Style 3 (Field Assy)

Style 10 (Field Assy)

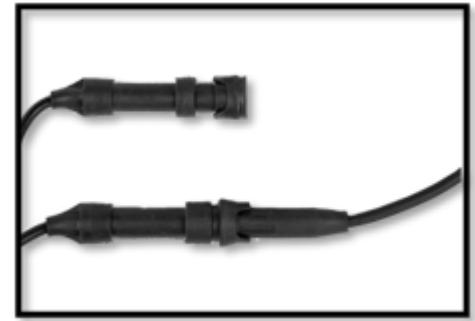
Secondary Connectors

Style 8 or Style 7

Style 1 or Style 6

CONNECTORS L-823

FAA AC 150-5345-26 L823 Connectors



TYPE I

Single conductor connectors rated
25 Amps and 5000 Volts

CLASS A

Factory Molded

TYPE 2

Two conductor rated 20 Amps and
600 Volts

CLASS B

Field Assembled

The **“Complete Kit”** is a:
FAA L823 Type I Class B Connector

PRIMARY CONNECTORS

L-823 Style 3 & 10

How to Size Class B connectors

- Type I - Primary
 - **L-823 Style 3 and 10.**

Sizing the primary kits

- Know the Wire Gauge.
- Know the Cable Jacket Diameter.

NOTE: Connector interface is the same on all sizes!

Ordering Information: 11805 - XX (XX - Size Code)

FAA Listing	Integro Part #	Cable	Min OD	Max OD
L-823	11805-01	8 AWG	.300"	.400"
Style 3 & 10	11805-02	6 AWG	.380"	.530"
	11805-04	6 AWG	.300"	.400"
	11805-05	8 AWG	.380"	.530"
	11805-08	8 AWG	.530"	.630"
	11805-09	6 mm ²	.300"	.400"
	11805-10	6 mm ²	.380"	.530"

L-823 CONNECTOR KITS TRAINING

27. L-823 Connector Kits- **Make Corrections Noted. No Resubmittal**
- a. Provide manufacturer recommended transformers and connector kits for full compatibility for watertight connection.
 - b. Every airfield lighting cable splicer shall be qualified in making airport cable splices and terminations on cables rated at or above 5,000 volts AC.

The Contractor shall submit to the Engineer proof of the qualifications of each proposed cable splicer for the airport cable type and voltage level to be worked on. Cable splicing/ terminating personnel shall have a minimum of three (3) years continuous experience in terminating/splicing medium voltage cable. The Contractor shall submit to the Engineer a notarized letter on company letterhead or certificate for each proposed cable splicer indicating that the splicer(s) has attended the manufacturer's installation instructional course or witnessed an instructional training video for the L-823 connector kit to be utilized under this contract within the past 3 years.

Following proper procedures for installing Primary Connector Kits will prevent issues on the airfield and ensure a reliable and watertight connection.

Why is a proper installation important?

- **Reliable connection provides consistent & long-lasting electrical flow**
- **Minimize Energy Losses**
- **Prevent arching**
- **Maintain minimum megger reading requirements (insulation resistance)**
- **Prevent water entry**

Primary Connector Kit Installation

01

Clean Wire

⋮

02

Strip at $\frac{3}{4}$ "

⋮

03

Pencil with tool

⋮

04

Crimp at $\frac{1}{4}$ " from the edge

⋮

05

Rotate 90 deg. Crimp $\frac{1}{4}$ " from first crimp

06

Flex Housings

⋮

07

Remove protective caps

⋮

08

Lubricate contact, apply to penciled area

⋮

09

Slide boot over, anchor will lock into place at audible click

⋮

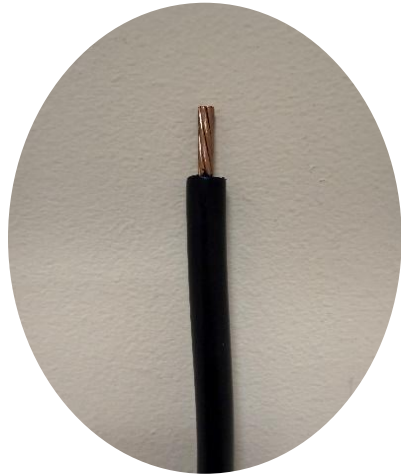
⋮

- **Male assembly:** The step on the pin should be even with the end of the male housing
- **Female assembly:** The end of the guide pin should be even with the end of the protective sleeve

L-823 LOCKING RING



Primary Connector Kit Installation



Strip at $\frac{3}{4}$ "



Pencil with tool



**Crimp at $\frac{1}{4}$ " from the edge
Rotate 90 deg. Crimp $\frac{1}{4}$ " from
first crimp**

Primary Connector Kit Installation



- **Male assembly:** The step on the pin should be even with the end of the male housing

Slide boot over, anchor will lock into place at audible click



- **Female assembly:** The end of the guide pin should be even with the end of the protective sleeve

L-823 INSTALLATION STEPS

