

SIEMENS

L-823 Airfield Runway Lighting Cord Set and Connector Kit

Compliance with Standards

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

Uses

L-823 plugs and receptacles (cable connectors) are used for underground cable connections, isolation transformer leads, and airport light fixture leads.

Features

- The voltage drop across the contacts of a connected plug and receptacle does not exceed 7.5 millivolts for primary connectors nor 6.0 millivolts for secondary connectors
- Sockets are slotted and spring-loaded to insure good electrical contact
- Pins and sockets are made of both copper and brass and are tin-plated for corrosion resistance
- Mated plug and receptacle connectors provide a water-tight seal
- Field-attached connector kits are resistant to direct sunlight and ozone
- Sockets are an annealed sleeve-type spring, which protects the socket slots from filling with insulation compound during molding
- Pins and sockets designed for field assembly connectors have provisions for crimping to the cable conductors at the job site
- Manufactured by various ETL-Certified sources

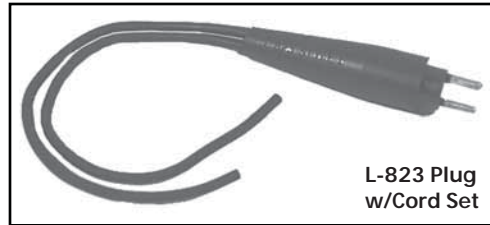
Operating Conditions

Temperature Range: -67°F to +149°F
(-55°C to +65°C)

Resistant to: Deicing fluids, jet fuel, rain, snow, ice, and standing water and can be buried in the earth

L-823 Cord Set

L-823 cord sets are used for secondary cable extensions and transformer interconnection cable assemblies. The standard cord set consists of the L-823 plug (Style 1) with molded-on 2C/AWG 16 wire (31-inches long from interface of plug to end of wire). Other lengths and AWGs are available by special order.



L-823 Plug
w/Cord Set

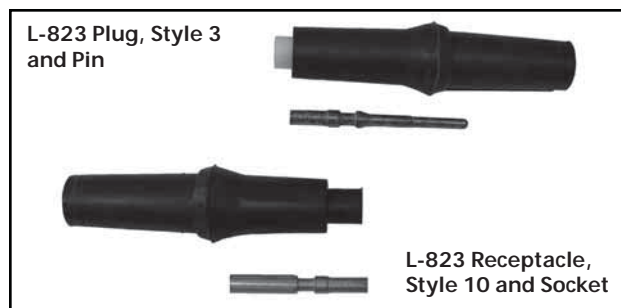


Primary Connector Kit

The primary cable connector kit is designed to provide a separable water-resistant connection between: 1) a non-screened primary airfield cable (5kV or less) and an FAA L-830 isolation transformer or 2) in a non-screened primary series circuit cable. One kit is required for each cable splice or transformer installation. Each kit conforms to FAA L-823 Style 3 plug and Style 10 receptacle with crimp-on pin and socket contacts.

Each receptacle is equipped with a disposable sleeve fitted into the receptacle's water seal to catch surplus silicone compound during assembly.

Each socket is equipped with a disposable pin fitted tightly into the pin end of the socket to prevent entry of silicone compound during assembly and provide a visual indication of proper socket position after assembly. An adequate amount of silicone insulating compound is furnished with each connector to insure all internal voids are filled during connector assembly.



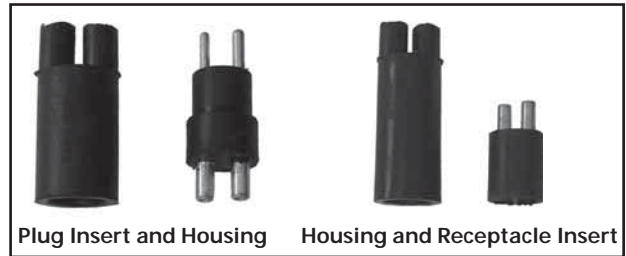
Secondary Connector Kit

Connector assemblies are composed of two parts: an insert assembly and a housing. When plug and receptacle assemblies are assembled, they provide a watertight seal to prevent moisture from entering the housing.

Secondary Connector Kit (Continued)

The Style 4 plug connector kit is designed to terminate individual secondary wires. The Style 5 kit is designed to terminate non-shielded secondary cables. The plug connector kit contains a plug housing with a crimp-on plug insert that mates to a Style 7, 8, 11, or 12 receptacle.

The Style 11 receptacle connector kit is designed to terminate individual secondary wires. The Style 12 kit is designed to terminate non-shielded secondary cables. The receptacle connector kit contains a receptacle housing and crimp-on receptacle insert that mate with a Style 1, 4, 5, or 6 plug connector.



Ordering Code: Cord/Extension Cord Sets

Description	Part No.
16/2 Cord with one Plug, Type II, Class A, Style 1, 4-foot length (121.92 cm)	73A0107-48
16/2 Cord with one Plug, Type II, Class A, Style 1, 6-foot length (182.88 cm)	73A0107-72
16/2 Cord, one Receptacle, Type II, Class A, Style 8, one Plug, Type II, Class A, Style 1, 8-foot length (243.84 cm) Receptacle to be connected to plug on standard 31-inch L-823 cord set.	73A0109-8
16/2 Cord, one Receptacle, Type II, Class A, Style 8, one Plug, Type II, Class A, Style 1, 6-foot length (182.88 cm) Receptacle to be connected to plug on standard 31-inch L-823 cord set.	73A0109-6
16/2 Cord, one Receptacle, Type II, Class A, Style 7, one Plug, Type II, Class A, Style 1, 8-foot length (243.84 cm) Receptacle may be connected to plug on 73A0107-X or 73A0109-8 cord set.	73A0108-8
16/2 Cord, one Receptacle, Type II, Class A, Style 7, one Plug, Type II, Class A, Style 1, 6-foot length (182.88 cm) Receptacle may be connected to plug on 73A0107-X or 73A0109-8 cord set.	73A0108-6

Ordering Code: Cord Set

Description	Part No.
Style 1 plug, 16 AWG	
31-inch (78.74 cm) without terminals <i>31 inches from interface of L-823 plug to end of wire. Contact the Siemens Airfield Solutions Sales Department for other lengths and wire sizes available by special order.</i>	73A0009-31
31-inch with fork terminal - #6 stud size <i>Specify length when ordering.</i>	44A1707
31-inch with female disconnect <i>Specify length when ordering.</i>	44A1701

Ordering Code: Primary Connector Kit

Cable Diameter (Insulation OD) in (cm)	Wire Size		Part No.
	Concentric Stranded AWG	Solid AWG	
Includes both Style 3 plug and Style 10 receptacle			
0.320-0.430 (0.813-1.092)	8	6	70A0012
0.320-0.430 (0.813-1.092)	8	6	70A0012-1*
0.320-0.430 (0.813-1.092)	6	4	70A0014
0.320-0.430 (0.813-1.092)	6	4	70A0014-1*
0.420-0.585 (1.067-1.486)	8	6	70A0017
0.575-0.785 (1.461-1.994)	6	4	70A0019

* Amerace Superkits

Ordering Code: Secondary Connector Kit

Cable Diameter (Insulation OD) in (cm)	Wire Size		Part No.
	Concentric Stranded AWG	Solid AWG	
Style 4 plug for terminating two individual conductors			
0.120-0.160 (0.305-0.406)	10-12	8-10	70A0055
0.155-0.205 (0.394-0.521)	10-12	8-10	70A0045
0.195-0.260 (0.495-0.660)	10-12	8-10	70A0044
Style 11 receptacle for terminating two individual conductors			
0.155-0.205 (0.394-0.521)	10-12	8-10	70A0046
0.195-0.260 (0.495-0.660)	10-12	8-10	70A0041
0.155-0.205 (0.394-0.521)	14-16	12-14	70A0049
Style 5 plug for terminating two conductors in a cable			
0.420-0.585 (1.067-1.486)	14-16	12-14	70A0040
0.420-0.585 (1.067-1.486)	10-12	8-10	70A0047
Style 12 receptacle for terminating two conductors in a cable			
0.420-0.585 (1.067-1.486)	14-16	12-14	70A0048

The information contained in this document is subject to change without notice. Siemens reserves the right to make changes and improvements to its products and assumes no responsibility for making these modifications on any equipment previously sold.

Electrical

Insulation Rating:	Primary Kits—5kV
	Secondary Kits—600V
Electrical Connector Rating:	Primary Kits—25A
	Secondary Kits—20A

Packaging

Description	Weight	
Primary Connector Kit	0.46 lb	0.209 kg
Secondary Connector Kit	0.12 lb	0.054 kg
L-823 Cord Set	0.18 lb	0.082 kg

Installation

Installation instructions are furnished with each field-attachable plug and receptacle.

