



**G. S. I. Inc.**

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## CONNECTOR KITS

### Compliance:

FAA AC 150/5345-26B

**FAA APPROVED**

### *Primary Connectors General Information*



Efla's Primary Connectors are designed to comply with specification FAA AC 150/5345-26B, which contains requirements for plugs and receptacles (cable connectors) used with shielded underground power cables (KD 500 Series) and unshielded underground power cables (KD 510 Series).

### Construction Pins & Sockets:

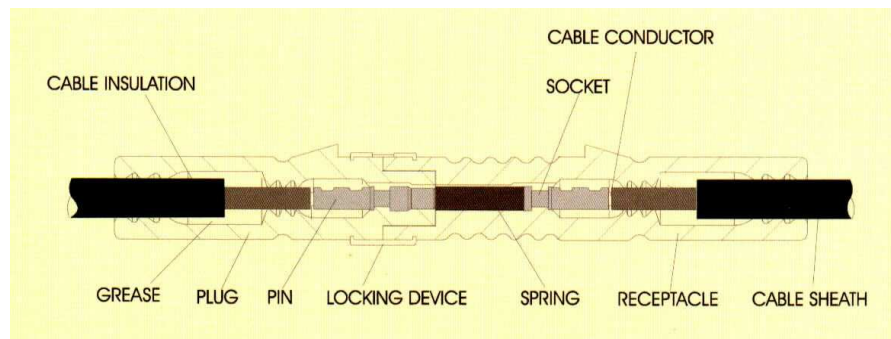
The contact parts are made from tin-plated copper. The socket is supplied with a copper beryllium sleeve-type spring assuring excellent contact pressure.

### Housing:

The plug and receptacle insulation is manufactured from Thermoplastic Elastomer (TPE) with exceptional protective environmental resistance and fluid resistance. They are capable of withstanding attacks from chemicals typically present on the airfield. The insulation also resists exposure to UV-radiation and o-zone.

### Each kit contains:

- ☐ 1 pair of plug and receptacle housings.
- ☐ 1 pair of pin and socket connectors.
- ☐ 1 locking device (polypropylene).
  - ☐ Silicone grease.
  - ☐ Cleaning cloth.



**In addition, in the KD 500 Series:**

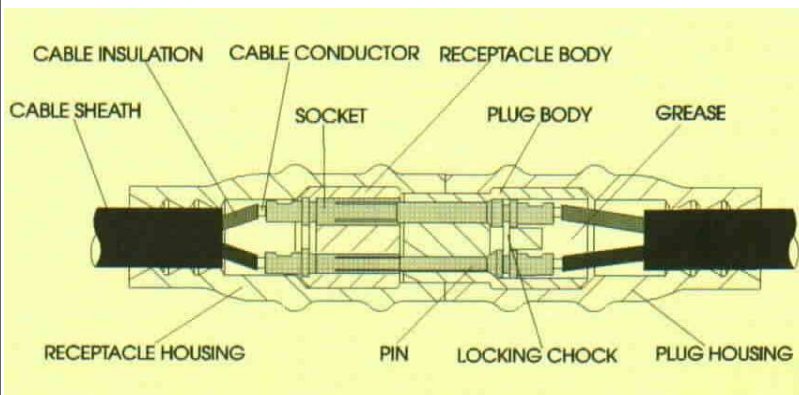
- ☐ 2 grounding connectors (tin-plated brass) with 13.7 in (34.8 cm) long, 0.098 in (0.249 cm) in copper wires.
- ☐ 1 grounding connector with 2 screws (nickel-plated brass); connector housing of polyamide 6.6.

**Technical Data:**

☐ Efla Type	FAA L-823	Conductor Size	AWG	Cable Diameter	Diameter of Cable Installaton
KD 500	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.40-0.57 in / 10.0-14.5 mm	0.27-0.41 in / 7.0-10.5 mm
KD 500.1	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.55-0.73 in / 14.0-18.5 mm	0.40-0.53 in / 10.0-13.5 mm
KD 500.2	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.55-0.73 in / 14.0-18.5 mm	0.40-0.53 in / 10.0-13.5 mm
KD 500.3	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.71-0.87 in / 18.0-22.0 mm	0.49-0.63 in / 12.5-16.0 mm
KD 500.4	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.71-0.87 in / 18.0-22.0 mm	0.49-0.63 in / 12.5-16.0 mm
KD 500.5	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.40-0.57 in / 10.0-14.5 mm	0.27-0.41 in / 7.0-10.5 mm
KD 500.6	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.33 -0.45 in / 8.5-11.5 mm	0.20-0.29 in / 5.0-7.5 mm
KD 510	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	*0.27 (0.40-0.57 in / 7(10.0-14.5 mm	* KD510 can also be used
KD 510.1	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.55-0.73 in / 14.0-18.5 mm	for cables with diameter
KD 510.2	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.55-0.73 in / 14.0-18.5 mm	0.27-0.40 in / 7-10 mm,
KD 510.3	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.71-0.87 in / 18.0-22.0 mm	if sealed in the inner
KD 510.4	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.71-0.87 in / 18.0-22.0 mm	sealing surface.
KD 510.5	Style 3, Style 10	0.40 in / 10 sqmm (0.63 in / 16 sqmm stranded)	AWG 6	0.40-0.57 in / 10.0-14.5 mm	Contact us for further
KD 510.6	Style 3, Style 10	0.24 in / 6 sq mm	AWG 8 (up to 10 strands)	0.33 -0.45 in / 8.5-11.5 mm	information.

**Secondary Connectors General Information**

Efla's Secondary Connectors are manufactured in accordance with FAA Specification AC-150/5345-26B, that contains requirements for plugs and receptacles.



Each kit contains:

- ☐ 1 plug or receptacle housing.
- ☐ 1 body of metal connectors.
- ☐ 2 pin or socket connectors.
- ☐ Silicone grease.
- ☐ Cleaning cloth.

### Technical Specification:

Current Rating: 20 A  
Voltage Rating: 600 V

### Construction Pins & Sockets:

The material of the contact parts is of tin-plated copper.

### Packing:

The standard packing for both primary and secondary connector kits is of recyclable cardboard, size 46.4 x 30.7 x 19.6 in (117.85 x 77.98 x 49.78 cm), on a wooden pallet. Each connector kit is individually packed in low density polyethylene plastic bags. On request, the connector kits can be packed in seaworthy wooden crates. Installation instructions are included with the standard packing of 100 pieces.



### Technical Data:

<input type="checkbox"/> Efla Type	Type	FAA L-823	Conductor Size	Cable Diameter <input type="checkbox"/>
KD 501	Plug	Style 5	0.06-0.10 in / 1.5-2.5 sq mm	0.33-0.53 in / 8.5-13.5 mm
KD 501.1	Plug	Style 5	0.16-0.24 in / 4.0-6.0 sq mm	0.45-0.71 in / 11.5-18.0 mm
KD 501.2	Plug	Style 5	0.16-0.24 in / 4.0-6.0 sq mm	0.33-0.53 in / 8.5-13.5 mm
KD 502	Receptacle	Style 12	0.06-0.10 in / 1.5-2.5 sq mm	0.33-0.53 in / 8.5-13.5 mm
KD 502.1	Receptacle	Style 12	0.16-0.24 in / 4.0-6.0 sq mm	0.45-0.71 in / 11.5-18.0 mm
KD 502.2	Receptacle	Style 12	0.16-0.24 in / 4.0-6.0 sq mm	0.33-0.53 in / 8.5-13.5 mm

<input type="checkbox"/> Efla Type	Type	FAA L-823	Conductor Size	Wire Diameter <input type="checkbox"/>
KD 503	Plug	Style 4	0.06-0.10 in / 1.5-2.5 sq mm	0.11-0.16 in (x2) / 2.8-4.0 mm (x2)
KD 503.1	Plug	Style 4	0.16-0.24 in / 4.0-6.0 sq mm	0.15-0.22 in (x2) / 3.8-5.5 mm (x2)
KD 503.2	Plug	Style 4	0.16-0.24 in / 4.0-6.0 sq mm	0.11-0.16 in (x2) / 2.8-4.0 mm (x2)
KD 503/R	Receptacle	Style 11	0.06-0.10 in / 1.5-2.5 sq mm	0.11-0.16 in (x2) / 2.8-4.0 mm (x2)
KD 503.1/R	Receptacle	Style 11	0.16-0.24 in / 4.0-6.0 sq mm	0.15-0.22 in (x2) / 3.8-5.5 mm (x2)
KD 503.2/R	Receptacle	Style 11	0.16-0.24 in / 4.0-6.0 sq mm	0.11-0.16 in (x2) / 2.8-4.0 mm (x2)

Sold & Serviced in the United States & Canada by G. S. I. Inc.

Manufactured by:



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