

3. Secondary Connectors

FAA AC 5345-26 L-823 / L-823, class B

EFLA's secondary connectors are designed and made to offer top level circuit protection and performance between secondary output of airfield isolation transformer and airfield lighting equipment.

EFLA's secondary connectors are packed and delivered in kits including all the necessary parts for making the assembly on secondary cables or wires. Each secondary connector kit contains parts for a pair (a plug and a receptacle), resulting in a watertight post-installation connection.

Nominal rating: 20 A and 600V

Main benefits

- Available for two-core cables, two single wires
- Wide range for different kinds of cable dimensions
- 3-pole secondary connectors are on offer
- TPE encapsulation provides tough and rigid insulation to the cable connection
- ROHS compliance with EU directive NO2002/95/EC
- EFLA also manufactures breakaway connector for approach lines (fully compliant with ICAO AMD6)

For two-core cable, styles 5 and 12

KD501-series (Plug)



KD502-series (Receptacle)



3-pole Secondary Connectors KD3P and KD3R

KD3P



KD3R



Caution: Secondary connectors are interconnectable with KD3R. Please take necessary measures to avoid dangerous interchangeability with 3-pole connectors of other manufacturers.

Dimensional data

EFLA type two core cable	EFLA type 3-pole secondary connector	Type	Conductor size	AWG	Wire diameter	in inches
KD501	KD3P	Plug	1.5 – 2.5 mm ²	16–14	8.5 – 13.5 mm	0.334 – 0.531
KD501.1	KD3P.1	Plug	4.0 – 6.0 mm ²	12–10 / 8	11.5 – 18.0 mm	0.157 – 0.708
KD501.2	KD3P.2	Plug	4.0 – 6.0 mm ²	12–10 / 8	8.5 – 13.5 mm	0.334 – 0.531
KD502	KD3R.	Receptacle	1.5 – 2.5 mm ²	16–14	8.5 – 13.5 mm	0.334 – 0.531
KD502.1	KD3R.1	Receptacle	4.0 – 6.0 mm ²	12–10 / 8	11.5 – 18.0 mm	0.157 – 0.708
KD502.2	KD3R.2	Receptacle	4.0 – 6.0 mm ²	12–10 / 8	8.5 – 13.5 mm	0.334 – 0.531

For two single wires, styles 4 and 11

KD503-series (Plug)

KD 503R-series (Receptacle)



Dimensional data

EFLA type two single wires	Type	Conductor size	AWG	Wire diameter	in inches
KD503	Plug	1.5 – 2.5 mm ²	16–14	2.8 – 4.0 mm (x 2)	0.110 – 0.157
KD503.1	Plug	4.0 – 6.0 mm ²	12–10 / 8	3.8 – 5.5 mm (x 2)	0.149 – 0.216
KD503.2	Plug	4.0 – 6.0 mm ²	12–10 / 8	2.8 – 3.4 mm (x 2)	0.110 – 0.133
KD503.3	Plug	4.0 – 6.0 mm ²	12–10 / 8	5.0 – 8.0 mm (x 2)	0.196 – 0.314
KD503R	Receptacle	1.5 – 2.5 mm ²	16–14	2.8 – 4.0 mm (x 2)	0.110 – 0.157
KD503R.1	Receptacle	4.0 – 6.0 mm ²	12–10 / 8	3.8 – 5.5 mm (x 2)	0.149 – 0.216
KD503R.2	Receptacle	4.0 – 6.0 mm ²	12–10 / 8	2.8 – 3.4 mm (x 2)	0.110 – 0.133
KD503R.3	Receptacle	4.0 – 6.0 mm ²	12–10 / 8	5.0 – 8.0 mm (x 2)	0.196 – 0.314

BC series breakaway connector



ADM6 dictates that secondary connectors, installed on frangible approach line mats, shall have means to guarantee that by-force disconnection, in the event of an airline crash on the approach line, is not taking place in open air and thus igniting surrounding kerosene. EFLA BC series breakaway connectors come in three options: BC1 breakaway connector for two-core cables, BC2 breakaway connector for two single wires, BC3 breakaway connector for prefabricated lead per customer request. All BC series breakaway connectors must be used as a pair.