

PRIMARY CONNECTOR KIT

# **KD500 series**





#### Caution!

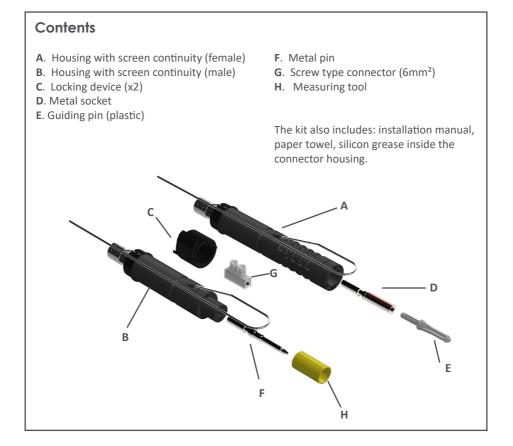
- Disconnect voltage supply and ground all circuits. FAA advisory circulars standards: latest AC150/5340-26 and AC150/5370-10.
- In case of non-compliance, do not install.
- Check that all components are in the plastic bag as per Contents below.
- Check www.efla.net for possible updates of installation instructions.

EFLA Type	Conductor size [mm <sup>2</sup> ]	AWG	Cable diameter [mm, inch]	Diameter at cable insulation [mm, inch]
KD500	6	8**	10.0 – 14.5 mm 0.393 – 0.570"	7.0 – 10.5 mm 0.275 – 0.413″
KD500.1	6	8**	14.0 – 18.5 mm 0.551 – 0.728"	10.0 – 13.5 mm 0.393 – 0.531"
KD500.6	6	8**	8.5 – 11.5 mm 0.334 – 0.452"	5.0 – 7.5 mm 0.196 – 0.295″
KD500.2	10*	6	14.0 – 18.5 mm 0.551 – 0.728"	10.0 – 13.5 mm 0.393 – 0.531"
KD500.5	10*	6	10.0 – 14.5 mm 0.393 – 0.570"	7.0 – 10.5 mm 0.275 – 0.413″

\*16 mm2 stranded, \*\*up to 19 strands







Use proper tool when installing Efla products! The recommended crimping tools are following:

- Elpress GWB 4099C
- KLAUKE K05/6
- KLAUKE K18

Efla is able to assist you in installation problems and questions about correct installation. The recommended crimping tools are available in Efla. For more information, please visit **www.efla.net**.

# EFLA YOUR AGL PARTNER

### **Preparing Cables**

#### 1. Strip cables according to the picture:

- Clean 20 cm of the cables ends with aliphatic solvents (e.g. spirit or corresponding).
- Outer jackets: 50 mm
- Cable screens (shield) and semi-conducting layer: 34 mm
- Cable insulations: 16 mm



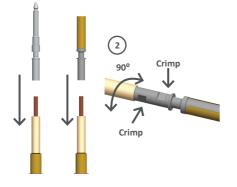
**Measuring Tool** 

0

16

34

50



## Crimping

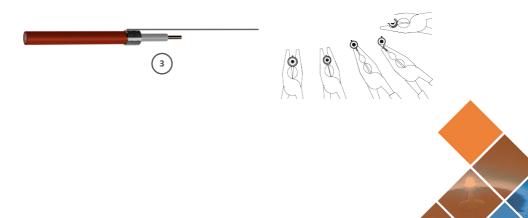
1

2. Crimp the metal pins (D & F) to the cable conductors.

- Crimp at two positions
- Turn the cable min 90° between the two crimps
- Size 6mm<sup>2</sup> (AWG 8) for KD500, KD500.1, KD500.6
- Size 10mm<sup>2</sup> (AWG 6) for KD500.2.
  KD500.5

### Screening

3. Place a screen continuity's ring around the cable shield area and crimp it. Make sure screen continuity wire doesn't slip completely out from the connector housing while crimping.



## EFLA YOUR AGL PARTNER

#### Assembling the receptacle connector

4. Press the guiding tool (E) into the receptacle socket (D).

5. Place the measuring tool (H) into the receptacle housing (A) and hold your thumb on top of it.

6. Position screen continuity wire in line with the receptacle housing (A) and push the pin and cable through the connector. Connector is assembled correctly when you feel the tip of the guiding pin against your thumb.

7. Remove the measuring (H) and guiding tools (E) and clean connectors from silicon grease with paper towel.

#### Assembling the Plug Connectors

8. Place the measuring tool (H) onto the plug housing and hold it with your thumb (B).

9.Position screen continuity wire in line with the plug housing (B) and push the pin and cable through the connector housing. Connector is assembled correctly when you feel the tip of the pin against your thumb.

**10.**Remove the measuring (H) and clean connector from silicon grease with paper towel.

#### **Remember the EFLA Lock**

11. Snap on the EFLA Lock (C) when using the connector with other EFLA products. With EFLA Lock connection withstands over 5 times higher pulling force

12. Connect the screen continuity wires to cable terminals. Make sure that the joint will remain straight.



4

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