EFLA
YOUR AGL PARTNER

PRIMARY CONNECTOR KIT

KD510 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.

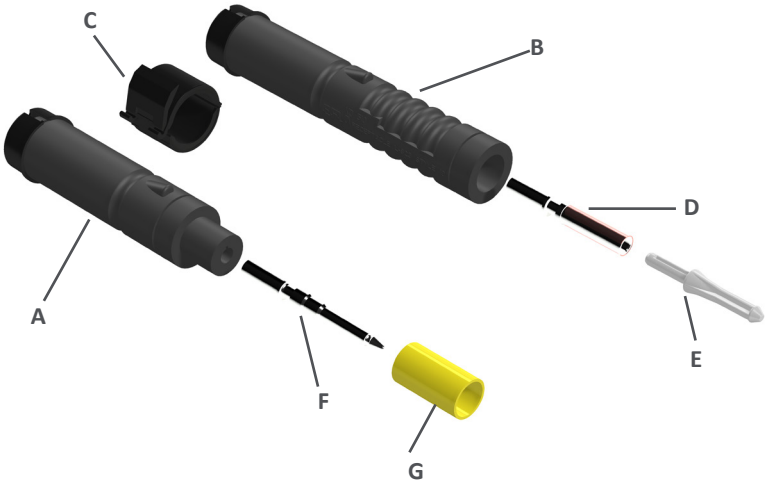
EFLA Type	Conductor size [mm²]	AWG	Cable diameter [mm, inch]	Diameter at wire insulation [mm, inch]
KD510	6	8**	10.0 – 14.5 mm 0.393 – 0.570”	7.0 – 10.5 mm 0.275 – 0.413”
KD510.1	6	8**	14.0 – 18.5 mm 0.551 – 0.728”	10.0 – 13.5 mm 0.393 – 0.531”
KD510.6	6	8**	8.5 – 11.5 mm 0.334 – 0.452”	5.0 – 7.5 mm 0.196 – 0.295”
KD510.2	10*	6	14.0 – 18.5 mm 0.551 – 0.728”	10.0 – 13.5 mm 0.393 – 0.531”
KD510.5	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

Contents

A. Plug elastomer housing (male)
B. Receptacle elastomer housing (female)
C. Locking device
D. Socket
E. Guiding pin (plastic)
F. Metal pin
G. Measuring tool

The kit also includes: installation manual, paper towel, silicon grease inside the connector housing.



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

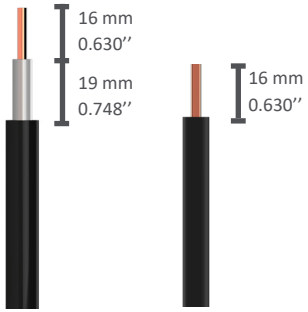
- Elpress GWB 4099C
- KLAUKE K05/6
- KLAUKE K18

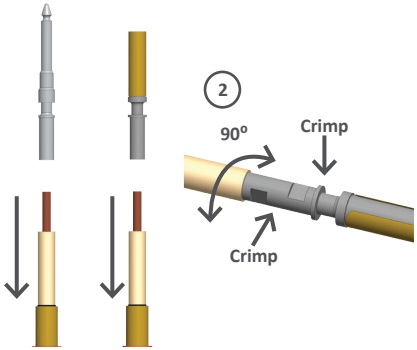
Efla is able to assist you in installation problems and questions about correct installation. The recommended crimping tools are available in Efla. For more information, please visit **www.efla.net**.

Preparing Cables

1. Strip cables according to the picture:

- Clean 20 cm/7.874” of the cables ends with aliphatic solvents (e.g. spirit or corresponding).
- Strip cable insulation 16 mm and outer jacket 35 mm.
- In case of outer jacket only, strip 16 mm.





Crimping

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

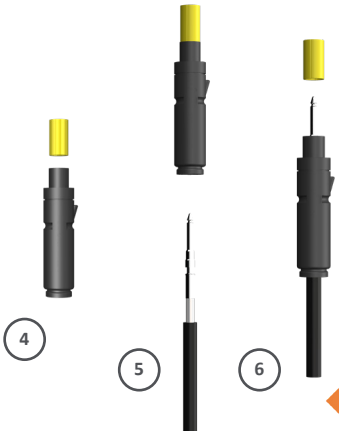
- Crimp at two positions
- Turn the cable min 90° between the two crimps
- Size 6mm² (AWG 8) for KD500, KD500.1, KD500.6
- Size 10mm² (AWG 6) for KD500.2. KD500.5

Assembling the Plug Connectors

3. Place the measuring tool (G) onto the plug housing (A) and hold it with your thumb .

4.Push the pin and cable through the connector housing. Connector is assembled correctly when you feel the tip of the pin against your thumb.

5.Remove the measuring tool (G) and clean connector from silicon grease with paper towel.



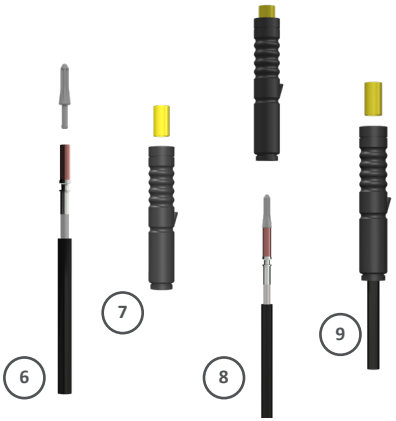
Assembling the receptacle connector

6. Press the guiding pin (E) into the receptacle socket (D).

7. Place the measuring tool (G) into the receptacle housing (B) and hold your thumb on top of it.

8. Push the pin and cable through the connector. Connector is assembled correctly when you feel the tip of the guiding pin against your thumb.

9. Remove the measuring tool (G) and guiding PIN (E) and clean connectors from silicon grease with paper towel.



Remember the EFLA Lock

10. 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