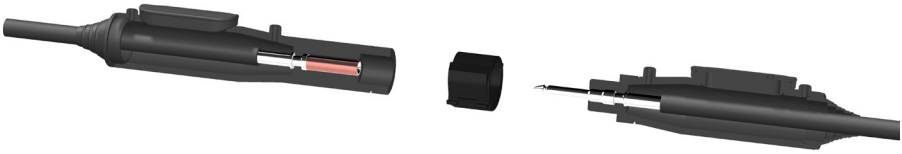
EFLA
YOUR AGL PARTNER

PRIMARY CONNECTOR KIT

KDR610-series



Caution!

- Read carefully through the Safety Instructions baled on the resin bag and prepare yourself accordingly.
- Do not open the aluminum bag until after Step 4 of these installation instructions.
- In case the resin containing aluminum bag is damaged, has cuts/holes or it is swollen - **do not use** the resin. Check that the resins last date of use has not expired (mm/yyyy at the top right).
- Note: Installation temperature range is +5ºC to +45ºC. Stocking temperature range is +10ºC to +40ºC.
- 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.

Dimensional Data

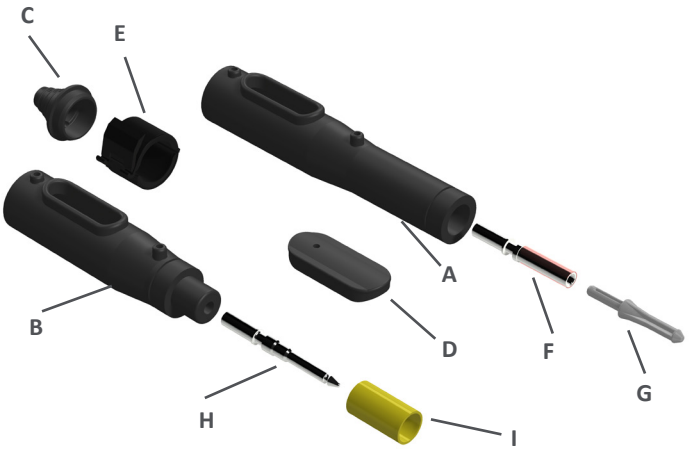
EFLA Type	Conductor size [mm²]	AWG	Cable diameter [mm, inch]	Diameter/Length of assembly [mm, inch]
KDR610	6	8**	9.0 – 19.0 mm 0.354 – 0.748”	31/270 mm 1.22/10.62”
KDR610.2	10*	6	9.0 – 19.0 mm 0.354 – 0.748”	31/270 mm 1.22/10.62”

*16 mm2 stranded, **up to 19 strands

Contents

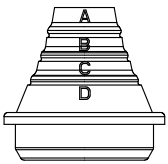
A. Plug elastomer housing (male)
B. Receptacle elastomer housing (female)
C. End cap (x2)
D. Protective cap (x2)
E. Locking device (x2)
F. Socket
G. Guiding pin (plastic)
H. Metal pin
I. Plastic gauge

Not illustrated: Resin Bag (resin + hardener), Gloves, Sandpaper, Installation instructions, 2 strips of self-vulcanizing tape, measure to strip cable



Preparing Cables

1. Cut cable and pass it through the end cap component (number 3). See ABCD dimension table for cutting options.



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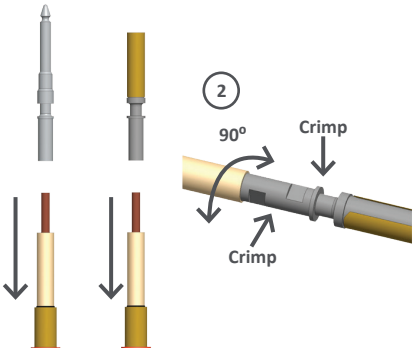
Options	Cable (Ø mm)
A	8,00 – 10,50
B	10,30 – 13,00
C	13,00 – 15,50
D	15,50 – 19,00

Preparing Cables

2. 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
- For proper resin adhesion, roughen cable outer shield and core insulation with sandpaper.



Crimping

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

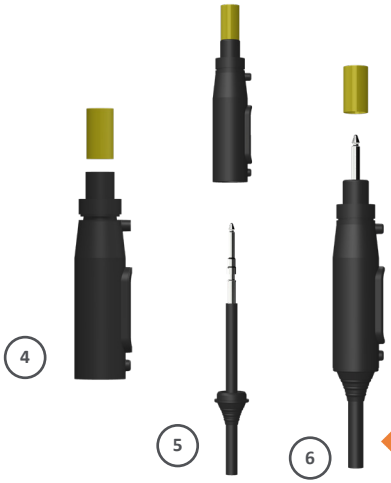
- Crimp at two positions
- Turn the cable min 90º between the two crimps
- Size 6mm² (AWG 8) for KDR610
- Size 10mm² (AWG 6) for KDR610.2

Assembling the Plug Connectors

4. Place the measuring tool (K) onto the plug housing (A).

5. Push the pin and cable through the connector housing. Verify the nominal dimension 27 mm using the measuring tool (K).

6.Remove the measuring tool (K).



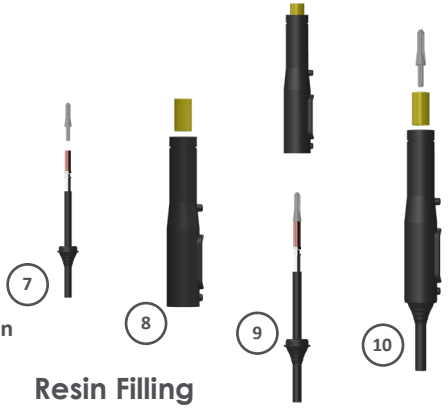
Assembling the Receptacle connector

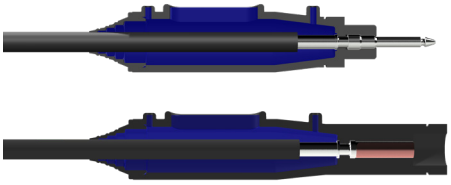
7. Press the guiding pin (G) into the receptacle socket (F).

8. Place the measuring tool (I) into the receptacle housing (B)

9. Push the pin and cable through the connector. Verify the nominal dimension 27 mm using the measuring tool (I).

10. Remove the measuring tool (K) and guiding pin (G).





Resin Filling

11. Place the connector housings separately on a horizontally flat surface. Make sure that both housings are clean and dry.

12. Mix the resin according to the instruction on the resin bag.

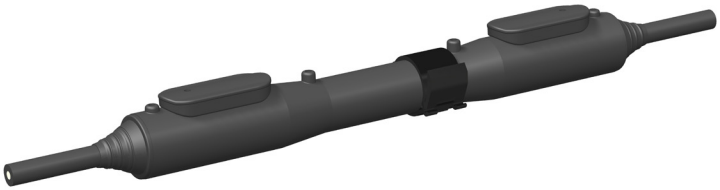
13. Fill each opening slowly with the mixed resin until the resin drop comes out from the air holes. Place the protective caps over each filling area with screen conducting wires through each protective cap hole.

14. Do not move it until the resin is completely hardened. After 6 hours curing, connectors are ready to be used.

Remember the EFLA Lock

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

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



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