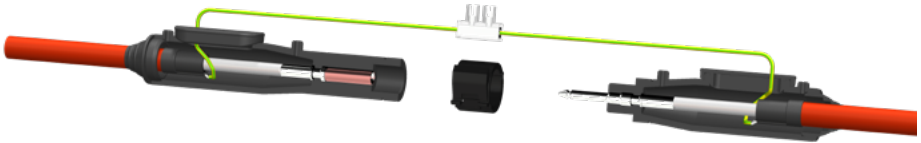


PRIMARY CONNECTOR KIT

KDR600 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.
- Read carefully through the Safety Instructions baled on the resin bag and prepare yourself accordingly.
- Do not open the aluminum bag before Step 11 of these installation instructions.
- In case the resins last date of use is expired or the resin containing aluminum bag is damaged - **Do not use** the resin.
- Note: Installation temperature range is +5°C to +45°C. Stocking temperature range is +10°C to +40°C.
- Check www.efla.net for possible updates of installation instructions.

Dimensional Data

EFLA Type	Conductor size [mm ²]	AWG	Cable diameter [mm, inch]	Diameter/Length of assembly [mm, inch]
KDR600	6	8**	9.0 – 19.0 mm 0.354 – 0.748"	31/270 mm 1.22/10.62"
KDR600.2	10*	6	9.0 – 19.0 mm 0.354 – 0.748"	31/270 mm 1.22/10.62"

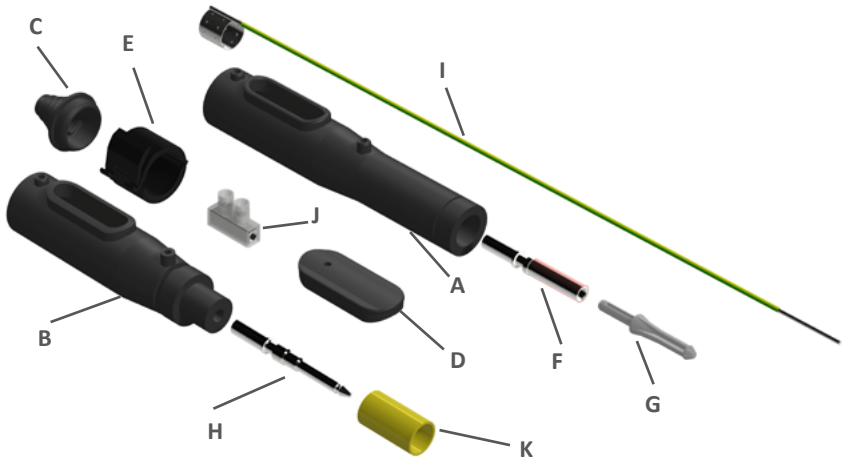
*16 mm² stranded, **up to 19 strands



Contents

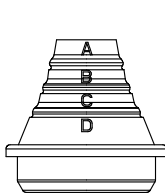
- A. Plug elastomer housing (male)
- B. Receptacle elastomer housing (female)
- C. End cap (x2)
- D. Protective cap (x2)
- E. Locking device (x2)
- F. Socket
- G. Guiding pin (plastic)
- H. Metal pin
- I. Screen conducting wire and ring (x2)
- J. Screw type connector (6mm²)
- K. Plastic gauge

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



Preparing Cables

1. Trim the end cap component (C) according to ABCD dimension table below and pass the cable through.



Options	Cable diameter (∅ mm)
A	9,00 – 10,50
B	10,30 – 13,00
C	13,00 – 15,50
D	15,50 – 19,00

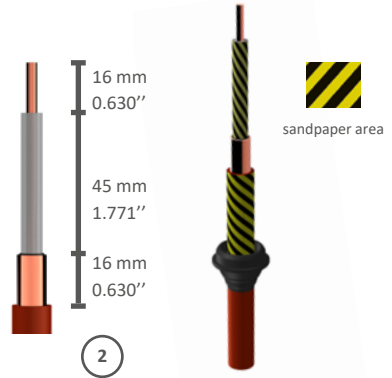


Preparing Cables

2. Strip cables according to the picture:

- Clean 20 cm of the cables ends with aliphatic solvents (e.g. spirit or corresponding).
- Outer jackets: 77 mm
- Cable screens (shield) and semi-conducting layer: 61 mm
- Cable insulations: 16 mm
- For proper resin adhesion, roughen cable outer shield and core insulation with sandpaper.

Measuring Tool



Screening

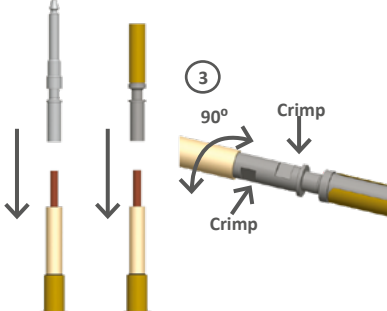
3. Place a screen continuity's ring around the cable shield area and crimp it.



Crimping

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

- Crimp at two positions
- Turn the cable min 90° between the two crimps
- Size 6mm² (AWG 8) for KDR600
- Size 10mm² (AWG 6) for KDR600.2

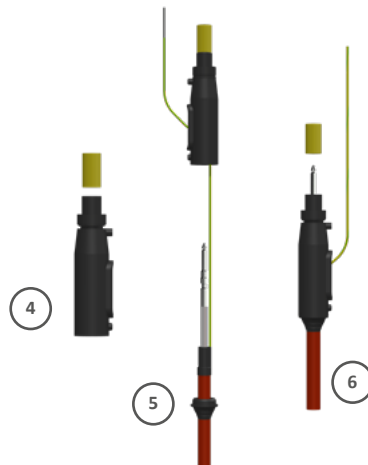


Assembling the Plug Connectors

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

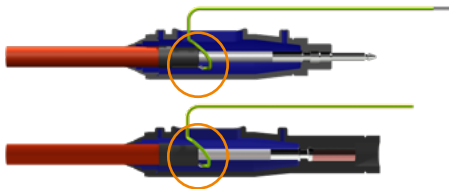
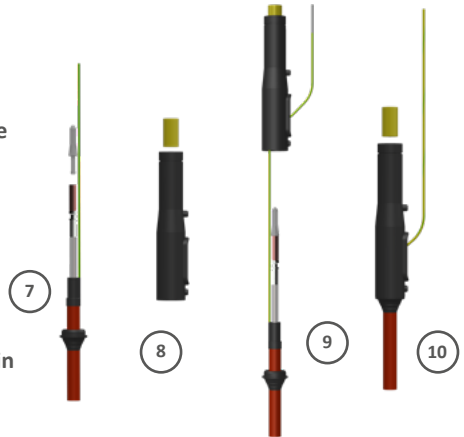
5. Position screen continuity wire in line with the plug housing (A) and push the pin and cable through the connector housing. Verify the nominal dimension 27 mm using the measuring tool (K).

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 (K) into the receptacle housing (B)
9. Position screen continuity wire in line with the receptacle housing (B) and push the pin and cable through the connector. Verify the nominal dimension 27 mm using the measuring tool (K).
10. Remove the measuring tool (K) and guiding pin (G).



*Note: Screen continuity wire routing

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.

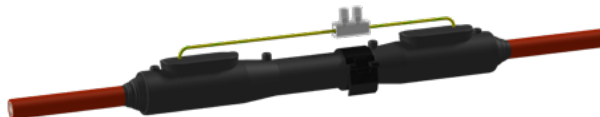
13. Fill each opening slowly with the mixed resin until the resin drop comes out from the air holes. Place the protective caps over each filling area with screen conducting wires through each protective cap hole.

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.



EFLA is the world's leading supplier of seamless power and communication products for airfield ground lighting circuits. With more than 30 years experience in the field, it develops, manufactures and sells globally-certified series isolation transformers, connector kits and prefabricated cable leads. The company's components meet the highest qualifications in materials and electrical design to withstand challenging installation in underground pits and cans and direct underground installation. Headquartered in Porvoo, Finland, EFLA supplies products to international airports around the world.