

Installation Instructions for AGL secondary connector kits

Read these instructions before installation:

Important:

- Only personnel qualifying to work with high voltage equipment and circuits are allowed to do the installation.
- Make sure the circuits are disconnected from the voltage supply and correctly grounded. Never connect or disconnect live circuits. Voltage is lethal.
- Follow the local instructions for safety precautions or refer to the FAA advisory circular AC150/5340-26 (maintenance of Airport visual Aid Facilities). Follow also Advisory circular AC150/5370-10 part XI Lighting installations. Always test the installation according to above mentioned documents and local instructions.
- Make sure that dimensions of the cable comply with the type of connector used. In case of any kind of non-compliance do not proceed with the installation.

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

Secondary				
Plug	Plug Receptacle Con-		Cable diameter	
KD501	KD502	1.5 – 2.5 sqmm	8.5 – 13.5 mm	
KD501.1	KD502.1	4.0 – 6.0 sqmm	11.5 – 18.0 mm	
KD501.2	KD502.2	4.0 - 6.0 sqmm	8.5 – 13.5 mm	

Secondary				
Plug	Receptacle Conductor size		Cable diameter	
KD503	KD503/R	1.5 – 2.5 sqmm	2.8 – 4.0 mm	
KD503.1	KD503.1/R	4.0 – 6.0 sqmm	3.8 – 5.5 mm	
KD503.2	KD503.2/R	4.0 – 6.0 sqmm	2.8 – 4.0 mm	

Contents:

Figure 1A

- 1 Silicone grease tube
- 1 Body with connecting parts
- 1 Plug or receptacle housings
- Cleaning cloth
- Installation instructions

SECONDARY CONNECTOR KIT ASSEMBLY

Steps 1: Clean approximately 20 cm of the cable end with a cleanser, i.e. spirit or equivalent and let dry.

Step 2: It is recommended to remove sharp edge of the cable insulation especially when the cable diameter is in the upper half of the cable diameter range.

Step 3: Open the front of silicon grease tube (1A) and dip the cable end in the silicone grease (1B). Push the cable through the housing before the stripping of wires.

Step 4: Clean the cable end again with cleanser, i.e. spirit or equivalent.

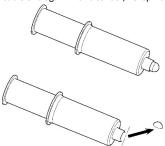


Figure 1B

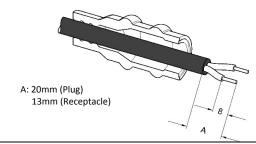
Greas



Step 5: Strip the sheath of a two core cable 20 ±5 mm for plugs (KD501-series), but only 13 ±5 for receptacles (KD502-series). Wires should be stripped up to 8 ±1 mm (2A).

Step 6: The insulation of single core cables (wires) should be stripped up to 8 ±1 mm (KD503 and KD503/R-series.

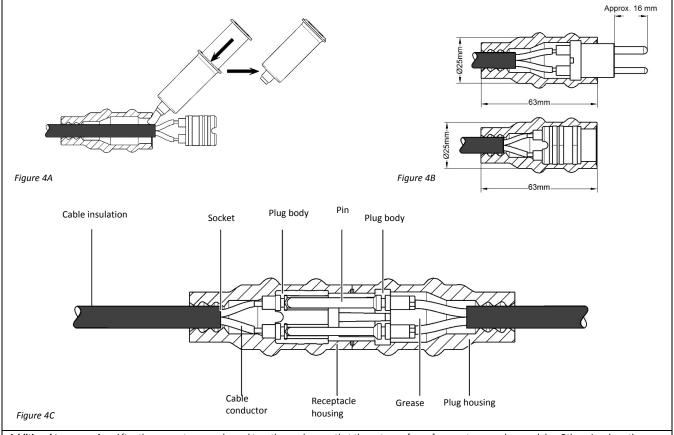
Figure 2A



Step 7: Crimp the metal parts to conductors with a proper crimping tool and assure liable connection. Crimping tool suggestions for secondary connector kits: conductor size 1.5 – 2.5 sqmm - Elpress DKB 0760 and conductor size 4 – 6 sqmm – Elpress EWB 4099C. Other trademarks may be used if the installer verifies adequate crimping.



Step 8: Grease the body with silicone grease tube (4A). Note: piston must be pushed to the end for maximizing the silicon grease volume inside of the housing. Pull the housing over the body and make sure that the housing is correctly in place (4B). If the PMR 755 sealing unit is used with a receptacle, grease lightly the inner surface of the ring and push it over the housing.



Additional tape securing: After the connectors are plugged together make sure that the outer surface of connectors are clean and dry. Otherwise clean the outer surface of the connectors between plug and receptacle connectors min. 40 mm (1.5 inch) with aliphatic solvents (spirit or equivalent). Wrap the joint where the connectors come together with at least one layer self-vulcanizing rubber tape (Scotch 23 or 130C) so that one half lapped extends at least 20 mm (0.8 inch) of each side of joint. Wrap at least one layer of PVC electrical tape (Scotch Super 33+ or equivalent) over the rubber tape.

Disconnection: Remove possible tape from the joint of plug and receptacle. Pull the connector apart without bending.

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