

CHANGE 1

DATE 1/4/82

ADVISORY CIRCULAR

CHANGE



DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration
Washington, D.C.

Subject: Change 1 to SPECIFICATION FOR L-823 PLUG AND RECEPTACLE, CABLE CONNECTORS--Revises Equipment Qualification Procedures

1. PURPOSE. This Change revises the procedures for obtaining equipment qualification approval as contained in paragraph 4.
2. EXPLANATION. Procedures for obtaining equipment qualification approval are now contained in AC 150/5345-1G, Approved Airport Lighting Equipment, and supersede those contained in paragraph 4 of this advisory circular.
3. FILING THIS CHANGE. This Change should be filed on the front of the advisory circular. Page changes to reflect this revision will be made at a later date.

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U.S. Department
of Transportation
**Federal Aviation
Administration**

FILE

Advisory Circular

Subject: Change 2 to SPECIFICATION FOR
L-823 PLUG AND RECEPTACLE, CABLE
CONNECTORS--Simplifies figures and
makes minor tolerance changes to
dimensions

Date: 8/3/82
Initiated by: AAS-200

AC No: 150/5345-26B
Change: 2

1. PURPOSE. This change removes unnecessary dimensions from the figures of appendix 1 and makes minor tolerance changes in dimensions d, m, and L of figures 1 and 2.

The Change number and date of changed material are carried at the top of each page.

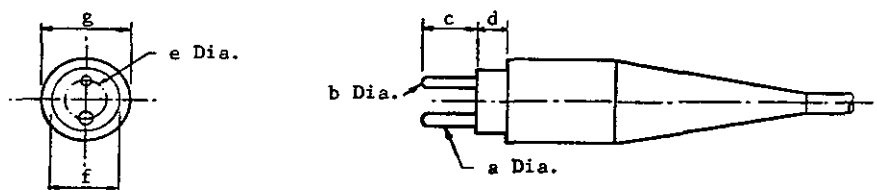
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Appendix 1 1-7	1/28/81	Appendix 1 1-5	8/3/82

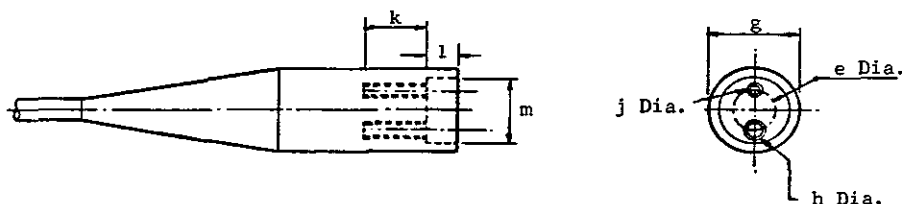
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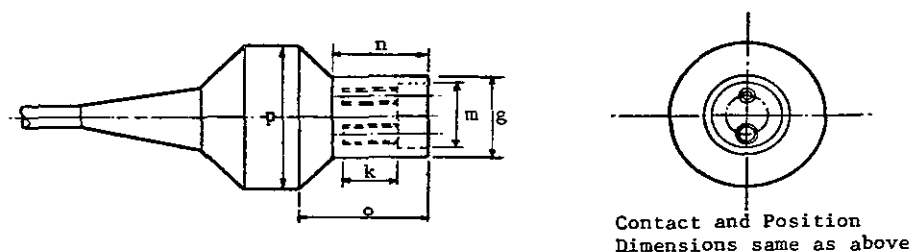
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(a) PLUG, Type II, Class A, Style 1



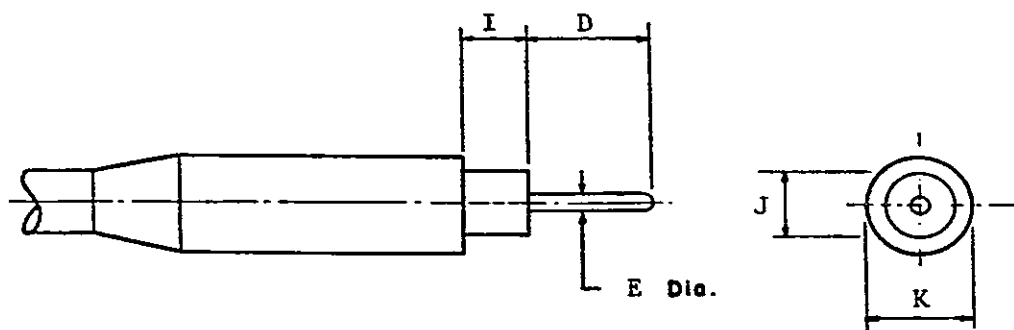
(b) RECEPTACLE, Type II, Class A, Style 7



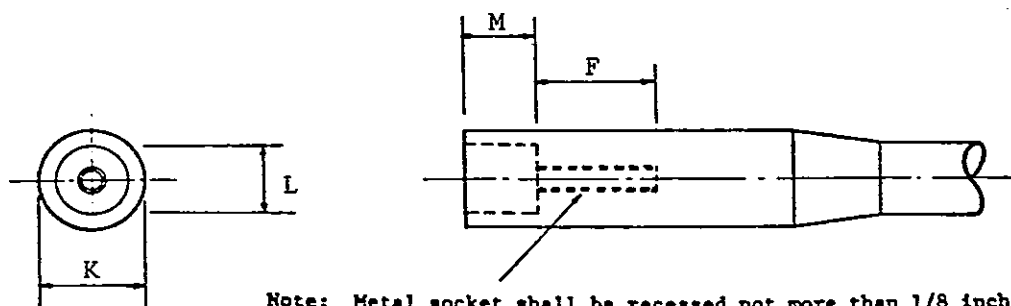
(c) RECEPTACLE, Type II, Class A, Style 8

<u>DIMENSION</u>	<u>INCHES</u>	<u>CENTIMETERS</u>	<u>REFERENCE</u>
a	0.155 $\pm$.001	0.394 $\pm$.003	Connector for white wire
b	0.124 $\pm$.001	0.315 $\pm$.003	Connector for black wire
c	0.625 $\pm$.015	1.587 $\pm$.038	Plug pin
d	0.343 $\pm$.031, -.000	0.871 $\pm$.079, -.000	Plug
e	0.435 $\pm$.010	1.105 $\pm$.025	Plug, Receptacle
f	0.725 $\pm$.010, -.000	1.841 $\pm$.025, -.000	Plug
g	1.000 $\pm$.000, -.031	2.540 $\pm$.000, -.079	Plug, Receptacle
h	0.157 $\pm$.001	0.399 $\pm$.003	Socket dia. before splitting
j	0.126 $\pm$.001	0.320 $\pm$.003	Connector for white wire
k	0.641 Min.	1.628 Min.	Socket dia. before splitting
l	0.358 $\pm$.000, -.015	0.909 $\pm$.000, -.038	Connector for black wire
m	0.694 $\pm$.010	1.763 $\pm$.025	Depth of socket includes .125" (.318 cm) recess below inside face of receptacle
n	1.125 $\pm$.031	2.857 $\pm$.079	Receptacle
o	1.500 $\pm$.031	3.810 $\pm$.079	Receptacle
p	1.750 $\pm$.031	4.445 $\pm$.079	Receptacle

Figure 1. Plug and Receptacles, Two Conductor, 20 Ampere, 600 Volts Between Contacts, 1500 Volts to Ground.



PLUG, Type I, Class A, Style 2

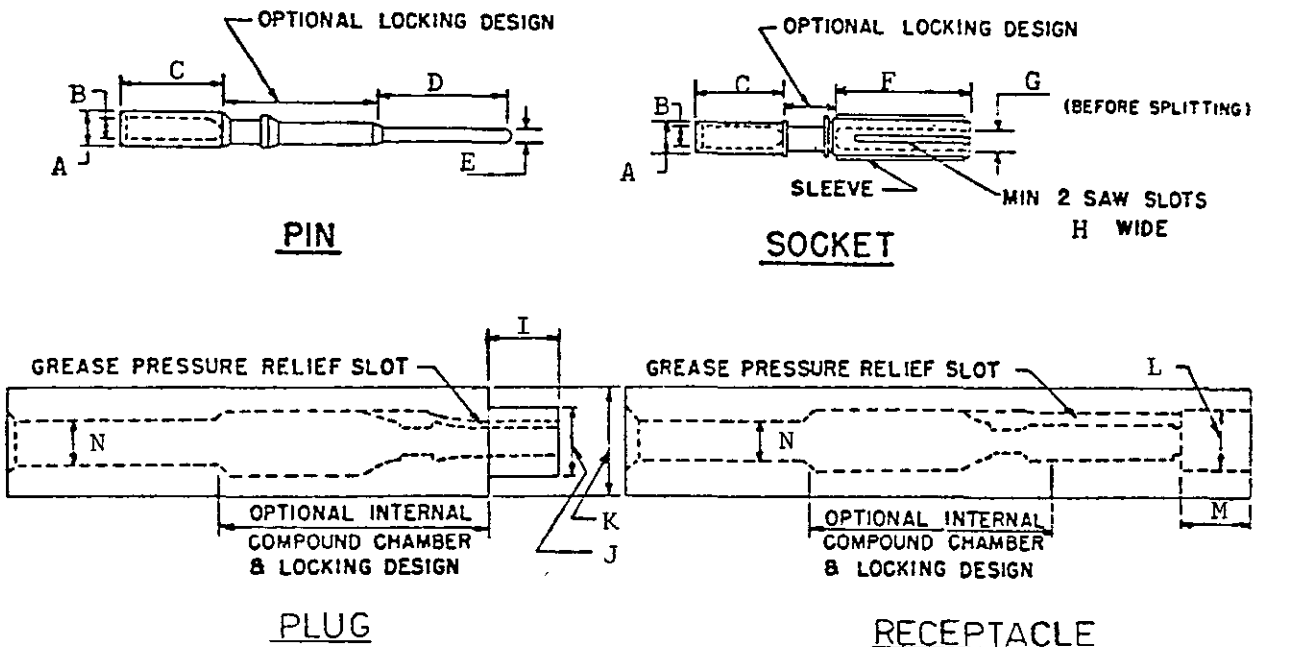


Note: Metal socket shall be recessed not more than 1/8 inch (0.318 cm) below inside face of receptacle and before splitting shall have an I.D. of .188 $\pm$.001 inch (.478 $\pm$.003 cm).

RECEPTACLE, Type I, Class A, Style 9

<u>DIMENSION</u>	<u>INCHES</u>	<u>CENTIMETERS</u>
D	1.062 $\pm$.015	2.697 $\pm$.038
E	0.186 $\pm$.001	0.472 $\pm$.003
F	1.080 Min.	2.743 Min.
I	0.593 $\pm$.015, -.000	1.506 $\pm$.038, -.000
J	0.604 $\pm$.010, -.000	1.534 $\pm$.025, -.000
K	0.937 $\pm$.000, -.031	2.380 $\pm$.000, -.079
L	0.573 $\pm$.010	1.455 $\pm$.025
M	0.608 $\pm$.000, -.015	1.544 $\pm$.000, -.038

Figure 2. Plug and Receptacle, Single Conductor, 25 Ampere, 5000 Volts to Ground.



<u>DIMENSION</u>	<u>INCHES</u>	<u>CENTIMETERS</u>	<u>REFERENCE</u>
A,B,C	Dimensioned to provide a compression fitting for the specified cable size.		
D	1.062 $\pm$.015	2.697 $\pm$.038	Pin
E	0.186 $\pm$.001	0.472 $\pm$.003	Pin
F	1.080 Min.	2.743 Min.	Depth of socket includes .125" (.318 cm) recess below inside face of the receptacle
G	0.188 $\pm$.001	0.478 $\pm$.003	Socket
H	0.025 $\pm$.010	0.064 $\pm$.025	Socket
I	0.593 $\pm$.015, -.000	1.506 $\pm$.038, -.000	Plug
J	0.604 $\pm$.010, -.000	1.534 $\pm$.025, -.000	Plug
K	0.937 $\pm$.000, -.031	2.380 $\pm$.000, -.079	Plug, Receptacle
	(K dimension may vary except near mating ends)		
L	0.573 $\pm$.010	1.455 $\pm$.025	Receptacle
M	0.608 $\pm$.000, -.015	1.544 $\pm$.000, -.038	Receptacle
N	Dimensioned to provide a waterproof seal with the cable insulation		

Figure 3. Plug, Type I, Class B, Style 3, and Receptacle, Type I, Class B, Style 10, Single Conductor, 5000 Volt, 25 Ampere.

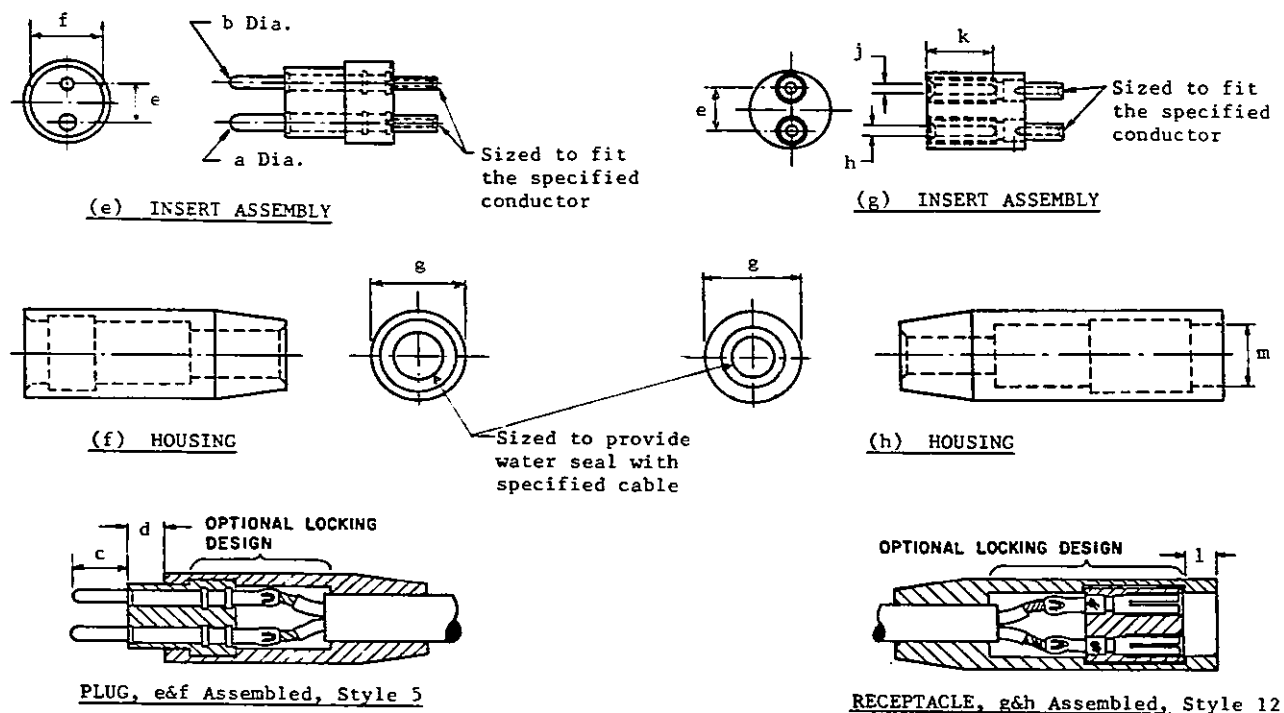
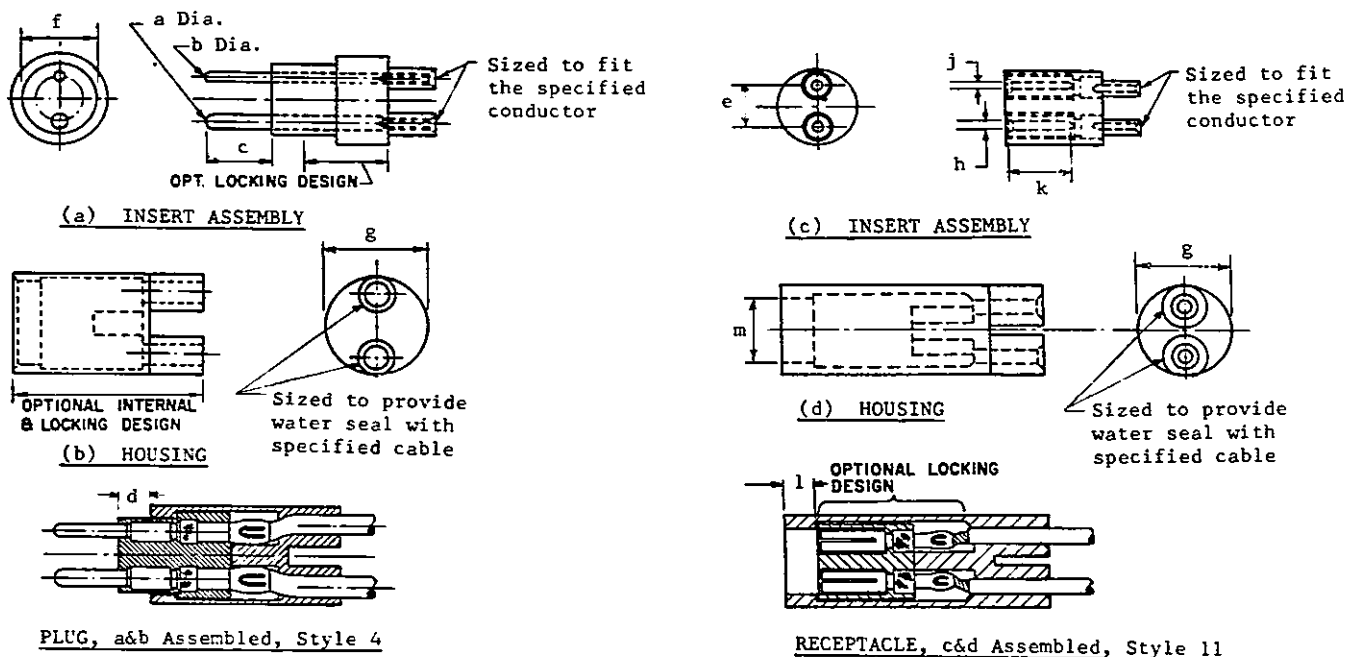


Figure 4. Plug and Receptacle Kits, Type II, Class B, 20 Ampere, 600 Volts Between Contacts, 1500 Volts to Ground

Contact circle and pin dimensions
are shown on Figure 1a.

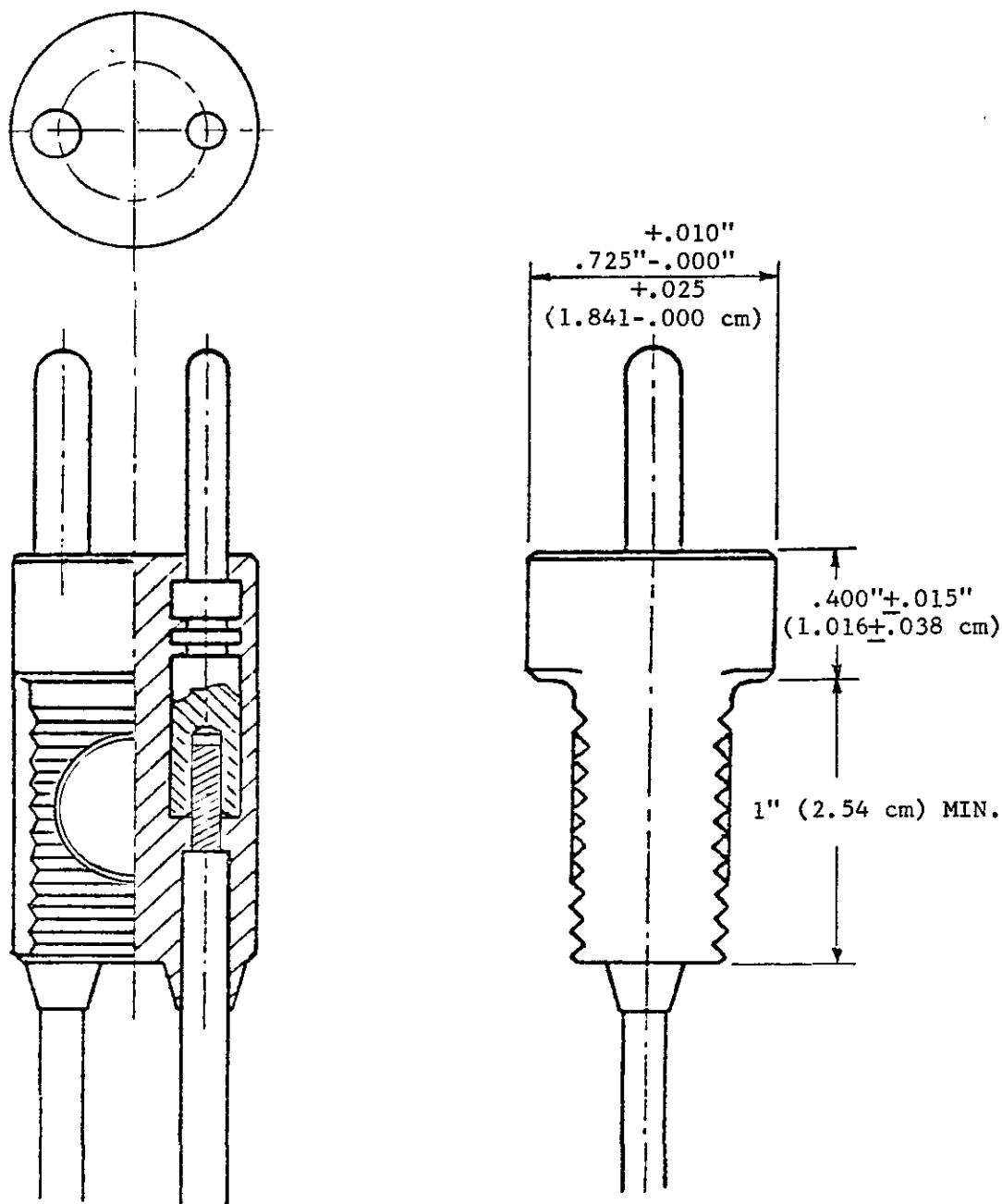


Figure 5. Plug, Two Single Conductors, 20 Ampere, 600 Volts Between Contacts, 1500 Volts to Ground, Type II, Class A, Style 6.