

SABRE PLUG & RECEPTACLE HOUSINGS – GLOW WIRE

1.0 SCOPE

This Test Summary covers Glow Wire testing of the 7.50 mm (.295 inch) centerline Sabre connector series plug & receptacle housings.

To meet the requirements of IEC 60335, all components that carry a current of > 0.2A and are intended for use in unattended household appliances must be able to withstand the criteria of IEC 60695-2-11. To pass these test criteria, a glow wire at a temp of 850°C (above the minimum requirement of 750°C) is applied to the test specimen for 30 seconds. A maximum combined flame duration of < 2 seconds is allowed.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND PART NUMBER(S)

PRODUCT NAME	PART NUMBER
Receptacle Housing, 2 circuit	44441-3002
Receptacle Housing, 3 circuit	44441-3003
Receptacle Housing, 4 circuit	44441-3004
Receptacle Housing, 5 circuit	44441-3005
Receptacle Housing, 6 circuit	44441-3006
Receptacle Housing, 2 circuit	43335-7002
Receptacle Housing, 3 circuit	43335-7003
Receptacle Housing, 3 circuit	43335-7013
Receptacle Housing, 3 circuit	43335-7103
Plug Housing, 2 circuit	43680-3002
Plug Housing, 3 circuit	43680-3003
Plug Housing, 4 circuit	43680-3004
Plug Housing, 5 circuit	43680-3005
Plug Housing, 6 circuit	43680-3006
Plug Housing, 2 circuit	43180-7002
Plug Housing, 3 circuit	43180-7003
Plug Housing, 3 circuit	43384-7003

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for information on dimensions, materials, platings and markings.

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DOCUMENT NUMBER: TS-44441-001	CREATED / REVISED BY: BLAKE ANDERSON	CHECKED BY: MATT KIPPER	APPROVED BY: FRAN SMITHROEMER

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

PSX-44441-9999
PSX-43335-9999

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES AND SEQUENCES

Check the behavior of the housings when submitted to the Glow Wire Test according to the following standards:

- EN 60335-1
- IEC 60695-2-11

3.2 OTHER DOCUMENTS AND SPECIFICATIONS

IEC 60335-1
IEC 60695-2-11

4.0 QUALIFICATION

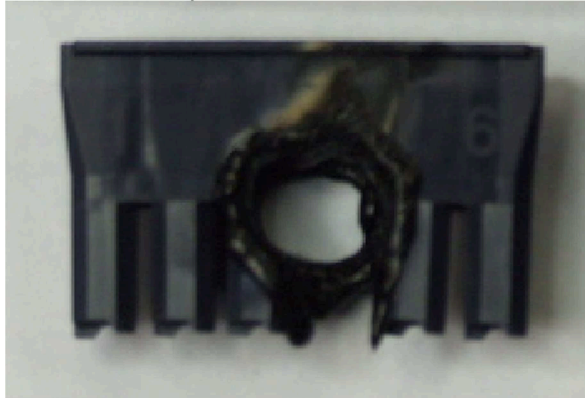
Laboratory conditions and sample selection are in accordance with **EIA-364**.

5.0 PERFORMANCE

IEC 60695-2-11 Glow-Wire test requirement $T_e \leq T_a + 30 \text{ sec}$						
IEC 60335-1 Glow-Wire test requirements $< 2 \text{ sec}$						
P/N	Matl	t_i (sec)	t_e (sec)	h (cm)	Temp	t_a (sec)
44441-3006	PA6	NF	NF	NF	850°C	30
43680-3006	PA6	NF	NF	NF	850°C	30
<p>t_i = time of flame ignition (sec) t_e = time flame extinguishes (sec) h = height of flame (cm) t_a = duration of glow wire application (sec) NF = No Flame</p>						

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44441-3006 (typical):



43680-3006 (typical):



Conclusion

The test results show that Sabre plug & receptacle housings listed in 2.1 comply with the requirements of IEC 60335 for unattended household appliances which carry > 0.2A.

The test was carried out according to IEC 60695-2-11 at a temperature of 850°C. No flames were observed during the 30 sec test duration.

6.0 FIXTURES AND TEST EQUIPMENT

Description
THERMOMETER (DIGITAL)
Glow Wire Test Fixture
Timer

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