

MODEL 596EOL***END-OF-LINE FILTER MODULE***

The Model 596EOL End-of-Line Filter Module is a device which augments automatic testing of 70 Volt and 100 Volt constant voltage speaker lines. The 596EOL allows testing continuity of speaker wiring all the way to the end of the line without the need and expense of a return wire from the line end. When used with the 20 kHz test of the IED Monitor/Test system, the 596EOL enables testing the integrity of the speaker lines of any balanced audio amplifier in the range of 100 W to 400 W.

While the 596EOL represents a significant load to the amplifier and speaker lines at 20 kHz, it has no significant effect on the audible frequency performance of the system.

For proper/complete speaker line testing, speakers on a circuit must be wired as one continuous string without any paralleled off branches. Figure 3 shows the right and wrong ways to interconnect speakers for proper testing

Only one 596EOL can be applied to the end of the speaker line of any one amplifier output. It is not permissible to place additional units in branch circuits of the same amplifier output.

The 596EOL is designed to comply with the requirements of NFPA 72 (2002 Edition) and UL864 (2003 Edition).

* U.S. Patent Pending



Figure 1 - 596EOL
Top View



Figure 2 - 596EOL
Side View



SPECIFICATIONS

TEST LIMITS

1. Test Tone (measured at the output of the amplifier)
 - V ≤ 5 Volts, f = 20 kHz May be applied continuously
 - V > 5 Volts, f = 20 kHz Time limited
 - V = 10 Volts, f = 20 kHz 4 Minutes, max
In free air
2. Maximum Test Tone Voltage 100 V

CURRENT SENSING

1. Current sensing for speaker line integrity is performed by an IED product such as the IED 596S, 596GS, 596SGFI, 6416, 6272, T9160, or T6400.

CONNECTORS

1. 596EOL to speaker line
¼ inch slip-on, insulated, crimp-type, female (2) AMP 2-520183-2
Or equivalent

MECHANICAL

1. Size, overall
 - Length 1.96"
 - Width 0.956"
 - Thickness, not including leads 1.0"
 - Lead length 6"
Measured from top surface

ENVIRONMENTAL

1. Operating Temperature Range (-40 °F - +212 °F) -40 °C - +100 °C
2. Storage Temperature Range (-58 °F - +221 °F) -50 °C - +105 °C

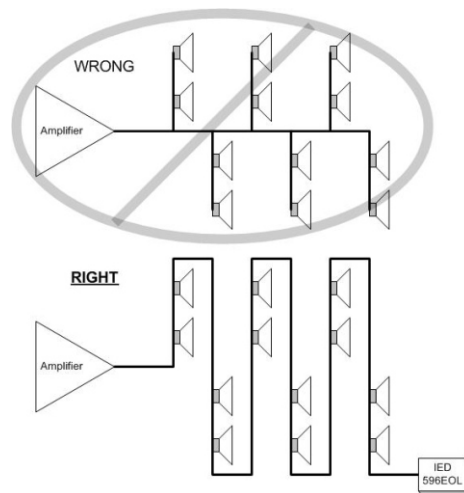


Figure 3 - Connecting Speakers for Proper Testing

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