

**Mircom™****SP-404-70A(W)**
SP-404SW-70A(W)**SP-504-70A(W)**
SP-504SW-70A(W)**SSW-100****SMART SILENCEABLE SPEAKERS AND SUITE SILENCE SWITCH INSTALLATION INSTRUCTION**

Designed to work with the QX-5000 Audio System using paging module QMP-5100A.

Compatible with MIRCOM's SIS-204 Speaker Isolators.

Available in 4"round or 4" square front grill painted beige.

Mounts into MIRCOM's standard speaker back boxes, IB-104, IB-204 and IB-404(W).

All smart silenceable speakers do not require a separate power supply.

Remote Silence switch model SSW-100 is used with silenceable speaker models SP-404-70A and SP-504-70A.

The SSW-100 mounts into a standard single gang electrical box. The red LED indicator follows the audio signal after the speaker is silenced to indicate that an alarm is still active. A pushbutton switch is provided for local silencing of the in-suite speaker(s).

FOR DWELLING USE ONLY/ USAGE RÉSIDENTIEL SEULEMENT.

MODELS

SP-404-70A(W) In-suite Silenceable 4" Speaker, Round, 70V

SP-404SW-70A(W) In-suite Silenceable 4" Speaker, Round, 70V with built-in Silence Switch

SP-504-70A(W) In-suite Silenceable 4" Speaker, Square, 70V

SP-504SW-70A(W) In-suite Silenceable 4" Speaker, Square, 70V with built-in Silence Switch

SSW-100 In-suite Silence Switch used with models: SP-404-70A and SP-504-70A

The suffix "W" indicates a bright white model.

SPEAKER ELECTRICAL SPECIFICATIONS

Input Voltage: 70V RMS

Speaker Coil Impedance: 8 Ohms

Power Taps: 0.25 W, 0.5 W, 1.0 W, 2.0 W

UL Frequency Range: 400 to 4000 Hz

Speaker Frequency Range: 320 to 11000 Hz

Indoor Operating Temperature: 32 EF to 120 EF (0 EC to 49 EC), For indoor use.

Standby Power: 0.0W

Power Consumption in Alarm: 0.25W plus(add) wattage of power tap selected.

Maximum Number of Silenceable Speakers on a circuit is limited by the available amplifier power.

TYPICAL OSPL (dBA)

SPEAKER	0.25 W	0.5 W	1.0 W	2.0 W
SP-404-70A	79 dB	82 dB	85 dB	88 dB
SP-404SW-70A	78 dB	82 dB	84 dB	87 dB
SP-504-70A	79 dB	82 dB	85 dB	88 dB
SP-504SW-70A	79 dB	82 dB	85 dB	88 dB

Meets or exceeds 75 dBA at 3m in an anechoic chamber using indicated power tap per CAN/ULC-S541.

Mircom does not recommend any changes to the factory applied finish.

Directional Characteristic

Angle	OSPL
90 (ref)	0 (ref)
± 20	-3 dBA
± 37	-6 dBA
± 90	-14.3 dBA
(representative of horizontal and vertical axes)	

Wiring Chart for 70V Speakers

Total Power	Maximum Wiring Run To Last Device (ELR)							
	18AWG		16AWG		14AWG		12AWG	
Watts	ft	m	ft	m	ft	m	ft	m
15	2500	762	4000	1219	6000	1828	8000	2438
30	1500	457	2500	762	4000	1219	6000	1828
60	750	228	1200	365	2000	609	3500	1066

Wiring Method should be in accordance with CSA C22.1, Canada Electrical Code, Part I, Safety Standard for Electrical Installations, Section 32.

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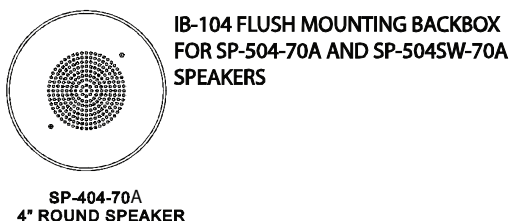
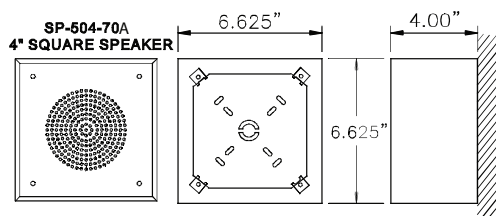
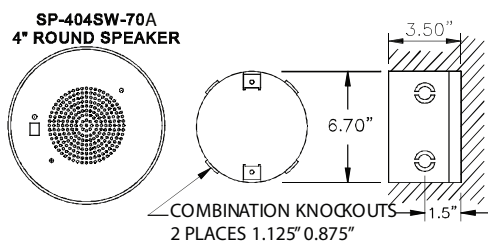
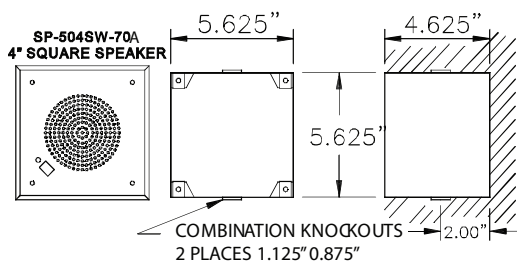
OPERATION: To silence speakers, push the silence switch and hold for 3 to 5 seconds until signals are silenced. When the silence switch is activated, it will silence the connected speaker(s) for approximately 9 minutes before resounding. When a paging message is initiated from the QMP-5100A, a 3 second pre-announce tone is used to reactivate the speaker(s) to allow for the paging message to be heard. The silenced speaker will resound after the page is completed. In addition, when the timer (9 minutes) expires, the speaker will resound if the alarm signal is still active. The speaker may be re-silenced in the same manner.

Note: The speaker must sound for 10 seconds before it can be silenced.

The speaker will return to "normal mode" (if previously silenced) automatically after the audio signal has ceased for more than 30 seconds. If a subsequent alarm occurs prior to the 30 second time period (if previously silenced), the speaker will not resound until the silence timer has elapsed. Any subsequent alarm that is processed after the fire alarm panel has been silenced beyond the 30 second time period will sound the speaker immediately.

INSTALLATION: The speakers are mounted into their appropriate backboxes using 4 screws which are provided. These boxes are usually mounted in the ceiling or in the wall. There is an IB-104 backbox (flush mount) which is used for the 4" round speakers and there are two backboxes available for the 4" square speakers, IB-204 Flush Mount and IB-404(W) Surface mount.

**IB-204 FLUSH MOUNTING BACKBOX
FOR SP-504-70A AND SP-504SW-70A
SPEAKERS**



**IB-404(W) SURFACE MOUNTING
BACKBOX FOR SP-504-70A AND
SP-504SW-70A SPEAKERS**

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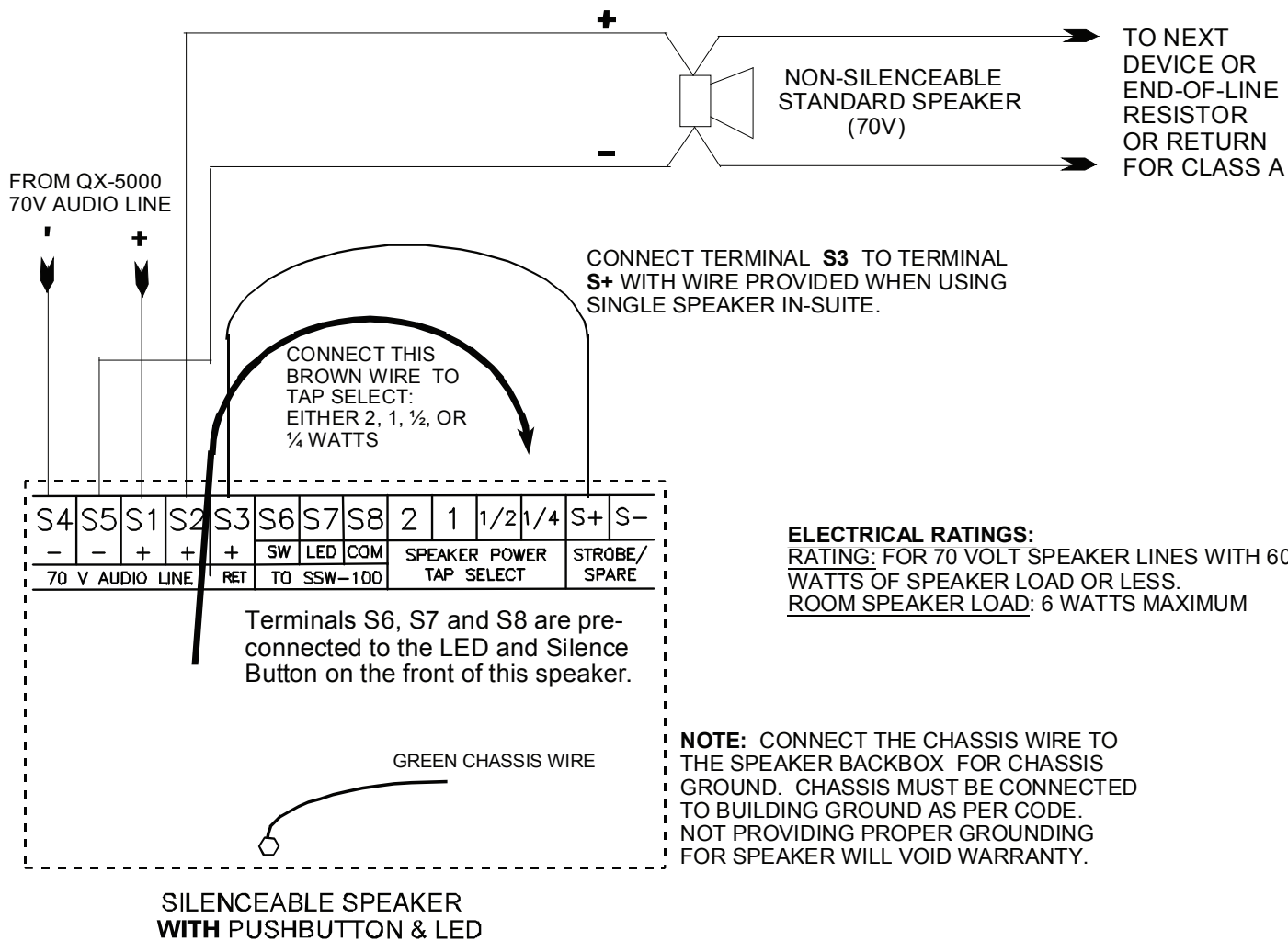
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Speaker Silencing using Silenceable Speakers with built in Silence Switch

The silenceable speakers SP-404SW-70A and SP-504SW-70A are wired in as in a standard speaker way. The silenceable switch and alarm LED found on the front of these speakers are wired internally. All speakers wired within the silenceable circuit with the suite will be silenced when the silence pushbutton is pressed. Refer to figure below for wiring information.

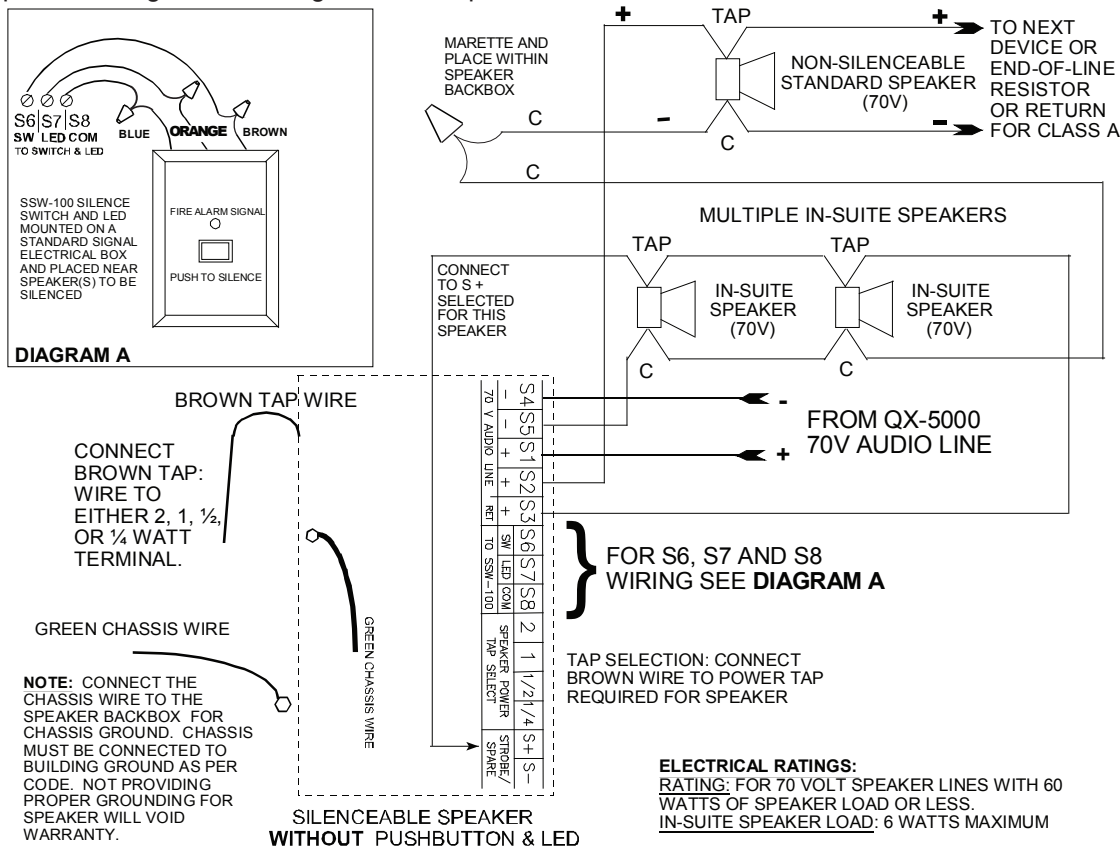


SMART SILENCEABLE SPEAKERS AND SUITE SILENCE SWITCH INSTALLATION INSTRUCTION

Speaker Silencing via in-suite Silence Switch SSW-100

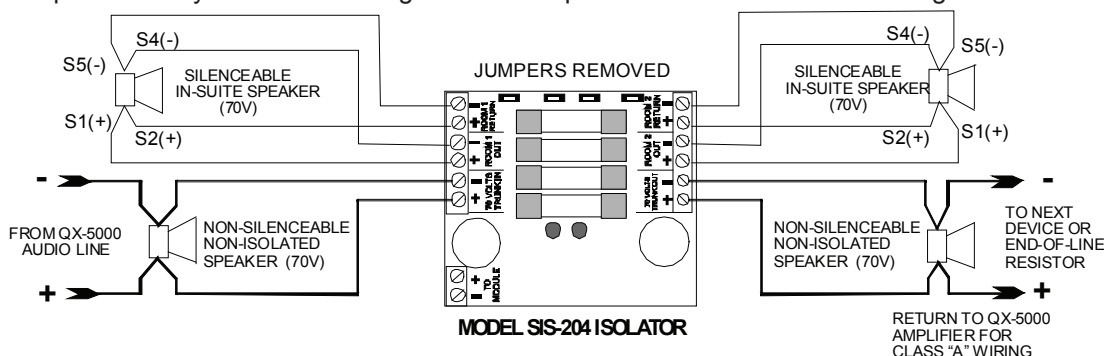
The speakers may be silenced by installing an SSW-100 Silence Switch within the suite. The silenceable speakers SP-404-70A and SP-504-70A are wired as shown below. The SSW-100 Silence is wired using three wire nuts.

NOTE: For speaker wiring size and length, refer to speaker instructions.



Silenceable Speakers with a Speaker Isolator:

The silenceable speakers may be isolated using a SIS-204 Speaker Isolator as shown in diagram below.



FUSES: LITTELFUSE 0.1A, 250V SLOW BLOW #312.100

ELECTRICAL RATINGS:

RATING: FOR 70 VOLT SPEAKER LINES WITH 60 WATTS OF SPEAKER LOAD OR LESS.

IN-SUITE SPEAKER LOAD: 6 WATTS MAXIMUM

MAXIMUM NUMBER OF ISOLATORS ON A SPEAKER LINE: 15 WITH SPECIFIED LITTELFUSE TYPE 312 FUSE.