



AS8600 Series



8" Dual Cone Speaker

Fire speaker, High quality designed to enhance the voice portion of the frequency spectrum. 70.7 or 25 Volt



FEATURES

- High Quality 8" Fire Alarm Speaker
- 8" Dual Cone type speaker for a more efficient speaker device.
- Excellent Voice Range Clarity.
- U.L.C. Listed & Approved. (70.7volt models only)
- 25 & 70.7 Volt Line Matching Transformer Models.
- Blocking Capacitor for D.C. Line Supervision.
- Transformer Can Be Tapped Up To 4 Watt.
- Devices Can Be Either Flush or Surface Mounted.

AS8600 Series

8" Dual Cone Loudspeaker Devices for the Fire-Safety Market. 25 & 70.7 Volt, Clear Voice Spectrum

AS8600 SERIES

Specifications - AS8600 Series

Arnsco'tt's AS8600 Series Dual Cone Speakers are the perfect match for high quality voice alarm and paging installations. These speakers are designed for excellent quality installations such as conference and board rooms, shopping malls, concourses, convention facilities, museums, art galleries, airports or for any commercial area that requires a high quality sound in their voice alarm / background paging communication system. All 70 volt Arnsco'tt speaker units are ULC LISTED and approved to meet the demanding requirements of the fire safety market.

Models are equipped with a multi-tapped transformer and line blocking capacitor for the D.C. line supervision. These units are designed to be of clear voice fidelity and better efficiency for the higher quality installations.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The **ARNSCOTT** models **AS8600 SERIES** consist of an 20cm (8") dual cone type loudspeaker (6 oz. Magnet), open back speaker housing for better speaker sound reproduction. This speaker is complete with an efficient constant voltage line matching transformer, a D.C. blocking capacitor of Metalized Polyester quality and a speaker baffle punched from cold rolled steel and powder coat painted. The terminal block shall be the dual position type to allow in-out wiring down to 12 gauge wire size. The frequency response of the complete voice grade alarm unit shall be better than 400 to 4,000Hz.(+/- 10dB)(rated as per ULC S541), actual is 50-10kHz +/- 5 dB. The 25 / 70.7 Volt transformer options shall be of the line matching type, with the following power taps; ¼, ½, 1, 2 or 4 Watt which can produce sound pressure output up to 90dB.@ 10Ft. (measured @ 1kHz.). The front baffle trim is 32.4cm (12-3/4") round or 31.75cm (12-1/2") square, and the depth is designed to fit into AEG back boxes with a depth of 4". The hole cut out size is 25.4cm (10") in diameter, and can easily be accomplished using AEG drywall and drop ceiling hole saw model **T-10HC**.

ARNSCOTT Models AS8600 SERIES BACKGROUND PAGING / VOICE ALARM LOUDSPEAKER UNITS shall be used wherever higher quality voice / paging / alarm frequency response, and high SPL output type voice alarm speaker units are specified. These speakers must be used with UNDERWRITERS LABORATORIES of CANADA (ULC) approved voice / paging / alarm equipment only. Note: only 70.7 volt models are ULC listed.



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AS8600 Series

General Specifications

Power Tap Selected	Avg. dB. over 400-4kHz.
¼W	78
1/2W	81
1W	85
2W	87
4W	90

SPL MEASUREMENTS:

SPEAKER dBA @ 10ft. Measured

General Installation Information

Model Number	Speaker Voltage (RMS)	Power Taps (WATTS)	Mounting Configurations Recessed Surface	Baffle Shape	Vandal Resist	Strobe Option ?	
Speaker Devices With White Baffle							
ASAL81G11W	70.7	¼, ½, 1, 2,4	E10	N/A	R	N	Y - Pending
ASAL81G11-14W	70.7	¼, ½, 1, 2,4	E11	N/A	R	N	Y - Pending
ASAL82G25W	70.7	¼, ½, 1, 2,4	E20	SE20SB	S	N	Y - Pending
ASAL83G11W	25	¼, ½, 1, 2,4	E10	N/A	R	N	Y - Pending
ASAL83G11-14W	25	¼, ½, 1, 2,4	E11	N/A	R	N	Y - Pending
ASAL84G25W	25	¼, ½, 1, 2,4	E20	SE20SB	S	N	Y - Pending

R = Round, S = Square



ASAL81G11W / ASAL83G11W
ASAL81G11-14W
ASAL83G11-14W

ASAL82G25W / ASAL84G25W

- When flush mounting these units ensure that 1 x MC1-P is specified to support the complete unit up into the drop ceiling or drywall, unless these back boxes are securely tied into the ceiling / wall members, which is additional security and is recommended in addition to standard mounting procedures.
- Actual speaker frequency response is 50-10,000 Hz. +/- 5dB. The cone is paper (very light), which produces a very efficient loudspeaker. This is an excellent quality loudspeaker. E11 is an option for poured concrete locations, frequency response below 400 Hz. will be effected if used
- The AS8600 Series fire speaker over the ULC frequency range of 400 – 4kHz. @ 10'(3m) at full power (4 Watt) will emit 90 dB.. The -3 & -6 dB. SPL down angles are +/- 22 degrees off axis and +/- 30 degrees off axis respectively from the speaker center and radiates a round pattern. This type of speaker is recommended for higher ceilings where a narrow or more controlled dispersion of sound levels is required.

General Ordering Information

- The AS8600 Series devices are intended for flush or surface mounting.
- This speaker series mounts to the enclosure using mounting screws that are visible after the installation.
- The AS8600 Series requires that the back boxes are installed before the drywall ceiling is installed. If the ceiling is a drop tile type, the wiring should be in place before the tiles are installed, at which point each individual tile can be removed and the speaker assembly wired and sandwich installed onto the tile, with the addition of MC1-P supports.
- For conventional installations, the back boxes listed above are normally ordered ahead of installation of the speakers.
- Baffles are available in a standard AEG white colour. Custom colours are available for an additional cost.
- Note: If the grill portion of the speaker is painted at any other facility other than our factory, the ULC listing is void! If you need a special colour, let us know at time of order.
- For more installation Instructions, please ask for AEG Technical Installation Note # A0365-D
- dBA. Is a sound pressure measurement made using the U.L.C. Standard ULC-S541.
- ULC is a trademark of Underwriters Laboratories of Canada.
- Only 70.7 volt speaker devices are ULC listed.

Arnsco Electronics Inc. reserves the right to update these specifications at any time. For warranty information, please see Arnsco separate price lists.