

Fire Speakers

CF0704

Surface Mount Speaker 100mm (4") 100V 5W AS ISO7240.24 Black

Overview

Designed to meet AS ISO7240.24:2015*, Fire version of our popular One-Shot surface mount speakers. Each feature flame retardant housing material and a tuned PA driver to suit the new approval requirements. One-Shot design simply snap-fits in seconds to the surface mounting ring, reducing installation time considerably.

*Active equalisation required to meet AS ISO7240.24 standard.

Features

- Designed to meet AS ISO7240.24 standard for fire & evacuation warning systems*
- Excellent speech intelligibility
- High quality speaker driver developed for BGM, paging and emergency warning applications
- Patented 2 way latching system reduces installation time.
- Fitted with 4 way wire protect terminal block for loop in, loop out wiring as required by Australian Standards.
- Fitted with supervisory capacitor for line monitoring.
- High impact enclosure & grille.
- Australian designed & assembled.
- 5 year warranty

The Labour Saving One-Shot® Mounting System

Redback® "One-Shot®" speaker units install in seconds providing substantial labour cost savings for the professional installer compared to traditional mounting methods.

They simply snap fit to the outer mounting ring by means of the integral pressure clips. The snap clip material is formulated to retain long service life strength and spring action, ensuring a firm vibration free fit.

Speaker cable entry can be either from the rear, or via surface mounted conduit (four 19mm conduit knockouts are provided).

The neutral black RAL colour provides an architecturally unobtrusive finish to virtually any installation.

The transformer is fitted with a 4 way wire protect screw terminal block. This is suitable for loop in, loop out cabling.

Optional Conduit Mounting Plate



The C 0699A adaptor plate enables the speaker mounting rings to be fixed to a standard recessed conduit junction box without the need for drilling into the concrete slab, saving considerable installation time & hardware.



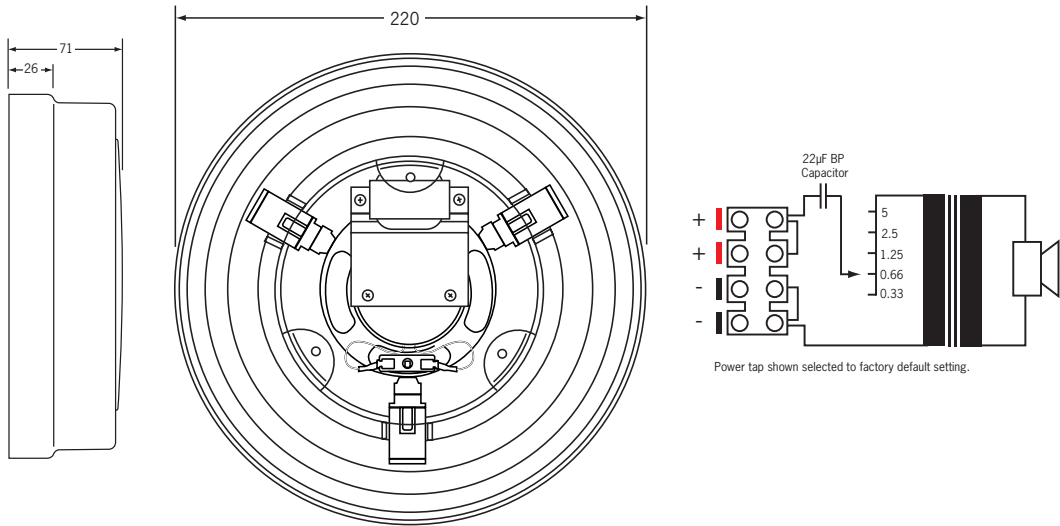
About Redback® Speaker Drivers

Each custom designed speaker and transformer combination has been specifically engineered to ensure a wide frequency range and dispersion angle, plus a high sound pressure level (SPL) ensuring excellent music and speech intelligibility; which is critical for emergency paging applications.

Each transformer is fitted with multiple power settings which are user selectable via taps on the transformer.



Dimensions (mm) & Transformer Details



Specifications

Electrical	
Rated Noise Power	5 Watts (100V line)
100V Power Taps & Impedance	0.33W (30kΩ), 0.66W (15kΩ), 1.25W (8kΩ), 2.5W (4kΩ), 5W (2kΩ)
Sensitivity	88dB (1W @ 1m), 76dB (1W @ 4m)
Maximum Sound Pressure Level	95dB (5w @ 1m), 83dB (1W @ 4m)
Frequency Response	100Hz -15kHz
Coverage Angle (-6dB)	1000Hz: 140°, 2000Hz: 105°, 4000Hz 80°
Environmental Type	A (for indoor applications as per standard)
Line Monitoring	Yes, 22uF bipolar capacitor
Applicable Cable	2.5mm ² (14AWG) max conductor area
Connection	4 way screw terminal
Mechanical	
Speaker Component	100mm (4") paper cone speaker
Material	White flame retardant ABS grille and housing (Taitalac 8540T) Clear Flame retardant ABS spring clips (Makrolon 6557)
Mounting Method	Surface Attachment
IP Rating	IP 21C
Dimensions	210Ø x 67mm
Weight	0.81kg
Environmental	
Operating Temperature	-25°C to +55°C
Relative Humidity	<95%
Additional Installation Accessories	
C 0699 Conduit Mounting Plate	

Required Equalisation (to meet AS ISO7240.24)

1/3rd Octave Band Centre (Hz)	Equalisation (dB)
500	9
630	11
800	9
1000	4

Architectural Specifications

The surface mount speaker shall have a 100mm speaker driver which shall operate at 100V and have power taps of 5W, 2.5W, 1.25W, 0.66W and 0.33W. It shall be approved to the AS ISO7240.24 fire and evacuation announcement standard. It shall be fitted with a 4 way wire protect terminal block for connection and 22uF bipolar capacitor for line monitoring. It shall have a SPL of 88dB (1W @ 1m). The speaker body shall be made of black flame retardant plastic and shall be surface mounted with concealed fixings. The surface mounting ring shall be provided with side and rear knockouts for conduit entry. The speaker driver shall be attached to the grill which shall be snap-fit attached to the surface mount ring. The ceiling mount speaker shall be a Redback model CF0704.