

Data Sheet

AS ISO7240.24 10W 100V Line Horn Speaker



Description

These horn speakers are certified to the AS ISO7240.24 standard for fire & evacuation announcements in buildings. Used for fire and evacuation systems where a high degree of speech articulation and program clarity is paramount. Typical applications include schools, train and bus stations, airports, car parks and plant rooms. Utilises a twist lock cap mechanism to reduce installation time during cable termination. Available in 4 colours. Note: Active equalisation is required for compliance to AS ISO 7240.24.

Test Method

This specification data was measured in an anechoic chamber, according to the AS ISO7240.24.

Reference axis: Axis is on the centre of the grille surface and perpendicular to the grille surface.

Reference plane: Plane is on the grille surface and perpendicular to the reference axis.

Horizontal plane: Plane is containing the reference axis and perpendicular to the reference plane.

Models

CF2053G	Grey
CF2053B	Black
CF2053R	Red
CF2053W	White

Specifications

Rated Noise Power	10 Watts (100V line)
Power Taps & Impedance (100V line)	1.25W (8kΩ), 2.5W (4kΩ), 5W (2kΩ), 7.5W (1.33kΩ), 10W (1kΩ)
Sensitivity	98dB (1W @ 1m), 86dB (1W @ 4m)
Maximum Sound Pressure Level	110dB (10W @ 1m), 98dB (10W @ 4m)
Frequency Response	250Hz - 10kHz, 500Hz - 4kHz 0±5dB
Coverage Angle (-6dB)	500Hz: 88°, 1000Hz: 127°, 2000Hz: 79°, 4000Hz 58°
Active EQ	See table 1.
Environmental Type	B (for outdoor applications as per standard)
Speaker Component	Aluminium voice coil former
Mounting Depth	275mm
Mounting Method	Wall bracket with mounting holes
Line Monitoring	Yes, 22µF bipolar capacitor
Applicable Cable	2.5mm ² (14AWG) max conductor area
Connection	4 way screw terminal
Finish	Flame retardant ABS (Absolac 300 MFR)
IP Rating	IP66
Operating Temperature	-25°C to +55°C (±2°C)
Dimensions	180Ø x 275Dmm
Weight	1.8kg
Quantities	8 per carton, 144 per pallet.

Table 1

Active Equalisation

1/3rd Octave Band Centre (Hz)	Equalisation (dB)
800	-1.0
1000	-3.0
1250	-4.5
1600	-4.5
2000	-2.5
2500	-1.0
3150	0.5
4000	2.0
5000	5.0
6300	6.5
8000	7.0
10000	7.0

Dimensions (mm)

