

# 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 3 colours. **NOTE: This model requires no external equalisation to meet the AS IS7240.24 standard.**

### Test Method

This specification data was measured in an anechoic chamber with the microphone 4m from the speaker under test, according to the AS ISO7240.24. Specifications at 1m were calculated from the measurements at 4m in accordance with AS ISO7240.24. **Reference axis:** Axis is on the centre of the horn and perpendicular to the plane containing the horn mouth.

**Reference plane:** Plane is on the horn driver plane and perpendicular to the reference axis.

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

**Vertical plane:** Plane containing the reference axis and perpendicular to the reference plane and horizontal plane.

### 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	Horizontal: 104dB (1W @ 1m), 92dB (1W @ 4m) Vertical: 103dB (1W @ 1m), 91dB (1W @ 4m)
Maximum Sound Pressure Level	Horizontal: 112dB (10W @ 1m), 100dB (10W @ 4m) Vertical: 112dB (10W @ 1m), 100dB (10W @ 4m)
Frequency Response	Horizontal & Vertical: 100Hz - 12.5kHz, 500Hz - 6.3kHz 0±5dB
External EQ:	Not Required (meets AS ISO7240.24 without EQ)
Coverage Angle (-6dB)	Horizontal: 500Hz: 95°, 1000Hz: 120°, 2000Hz: 90°, 4000Hz: 40° Vertical: 500Hz: 130°, 1000Hz: 130°, 2000Hz: 115°, 4000Hz: 55°
Environmental Type	B (for outdoor applications as per standard)
Speaker Component	Aluminium voice coil former
Mounting Depth	259mm
Mounting Method	Wall bracket with mounting holes
Line Monitoring	Yes, 22µF bipolar capacitor
Applicable Cable	2.5mm <sup>2</sup> (14AWG) max conductor area
Connection	4 way screw terminal
Finish	Flame retardant ABS (Absolac 300 MFR)
IP Rating	IP66
Operating Temperature:	-20°C to 55°C
Weight	1.4kg
Quantities	10 per carton, 200 per pallet.

### Models

<b>CF2050B</b>	Black
<b>CF2050G</b>	Grey
<b>CF2050W</b>	White

### Dimensions (mm)

