SPCF-E-06W-50-EN54

EN54 Economy Ceiling Loudspeaker

Installation Guide

- 6W 100V Loudspeaker
- Size 5” (130mm)
- Quick Mount
- Shock-resistant housing
- High efficiency
- Excellent Sound Quality
- Fully certified to EN 54-24

The SPCF-E-06W-50-EN54 is a 6W 100V flush mount ceiling loudspeaker, which has a 5” (130mm) full-range chassis providing excellent sound quality with speech and background music, and which is certified to EN 54-24. The loudspeaker is fitted with a 100V transformer which has three power adjustment tappings of 6W, 3W, and 1.5W.

The SPCF-E-06W-50-EN54 has a powder coated metal chassis and grille, with the high quality powder coated finish giving good long-term protection and resistance to corrosion.

A protective plastic dome covers the rear of the loudspeaker, and prevents dirt, dust and other debris or foreign objects from contacting the cone or any other part of the loudspeaker rear. As standard the loudspeaker is coloured to match RAL9016 ‘Traffic White’. Alternatively, the loudspeakers can be supplied in any four-digit RAL or NCS colour, as a special order. The loudspeaker’s enclosure is ingress protection rated to IP21C.

Spring clamps provide quick and easy ceiling mounting, with a possible ceiling thickness of between 3mm to 45mm. The flat construction method allows a low mounting depth of only 70mm.

Please note that although very thin ceilings can be used as a mounting surface, it should be ensured that the ceiling thickness and strength are appropriate to the weight (0.5 kg) of the loudspeaker, and to the thickness and weight of the 100V line cables.

There is a metal Firedome available for this loudspeaker as an optional accessory, part number SPAC-FD-E-50, which can be used in place of the speaker’s rear plastic dome cover to provide additional resilience to fire.

Enhanced Acoustic Simulator for Engineers (EASE) data for this loudspeaker is available on request.

CE 17

Certified to EN 54-24:2008.
Certificate No. 1438-CPR-0556
Measurements according to DIN IEC 268-5
RoHS compliant (2011/65/EU)

Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings. Type A
Rated voice voltage: 100V
Rated voice/noise power: 6W

WEE/JB1444YU

This product must be disposed of in accordance with the WEEE directive.

Failure to use the equipment in the manner described in the product literature will invalidate the warranty.

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Part Number: M0745_06 ASL Document Ref: U-0745-0016.docx Issue 04, Complete, Approved – Date: 04 February 2021

Installation of the SPCF-E-06W-50-EN54

1. Check that the ceiling thickness is between 3mm and 45mm, with a thickness and strength appropriate to support the weight of the loudspeaker (0.5 kg) and the weight of the speaker cables.
2. The 100V audio power speaker cable should have a max. cable cross section of 4.9mm², or a max. cable cross section of 2 x 1.2mm² with daisy-chain wiring.
3. Make a ceiling cut-out of 156 mm diameter.
4. Unscrew the wing nut in the middle of the loudspeaker's rear and remove the protective rear plastic dome cover.
5. Pull the audio power cable or cables down through the loudspeaker's ceiling opening.
6. Push the audio power cabling through the rubber grommets in the rear of the protective dome.
7. Connect the audio power cabling to the loudspeaker's cable clamps.
8. Re-mount the protective dome on the rear of the loudspeaker assembly, using the wing nut.
9. Lift the loudspeaker's two fixing springs and push the loudspeaker into the ceiling cut-out until the loudspeaker is fully in position and flush with the ceiling. The springs then engage and hold the speaker securely in the ceiling.

Installation with the SPAC-FD-E-50 Fire Dome

1. Check that the ceiling thickness is between 3mm and 45mm, with a thickness and strength appropriate to support the weight of the loudspeaker with metal Fire Dome (0.7 kg), and the weight of the speaker cables.
2. The 100V audio power speaker cable should have a max. cable cross section of 4.9mm², or a max. cable cross section of 2 x 1.2mm² with daisy-chain wiring.
3. Make a ceiling cut-out of 156 mm diameter.
4. Remove the speaker's plastic dome cover by unscrewing its wingnut and any mounting screws.
5. Pull the audio power cable or cables down through the loudspeaker's ceiling opening.
6. Push the audio power cabling through the rubber grommets in the rear of the metal fire dome.
7. Connect the audio power cabling to the loudspeaker's cable clamps.
8. To mount the metal fire dome, screw the spacer into the hole on the speaker's magnet, then place a washer on the top of the spacer. Place the fire dome on top of the washer, then place the second washer on top of the fire dome and fasten the wing nut.
9. Fasten the fire dome to the speaker chassis using the four mounting screws provided.
10. Lift the loudspeaker's two fixing springs and push the loudspeaker into the ceiling cut-out until the loudspeaker is fully in position and flush with the ceiling. The springs then engage and hold the speaker securely in the ceiling.

Service and Warranty

This product carries a full warranty. For full details of warranty and service agreements, please contact the organisation which supplied the product to you.

Exclusions

The warranty does NOT cover:

1. Customer misuse, including incorrect installation.
2. Abnormal environmental operating conditions.
3. Damage incurred by accident, fire, lightning or other hazard.
4. Modification to the unit or inexpert / attempted repair.
5. Any other damage (other than manufacturing defects).
6. Improper packing or transit / courier damage.
7. Over voltage audio power supply used.
8. No fault found.

Application Solutions (Safety and Security) Limited shall not be liable for any indirect, special or consequential loss or damage (including without limitation any loss of profits) arising from the use of this product or for any breach of this warranty.

In the interest of continual product development, Application Solutions (Safety and Security) Limited reserves the right to make changes to product specification without notice or liability.

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