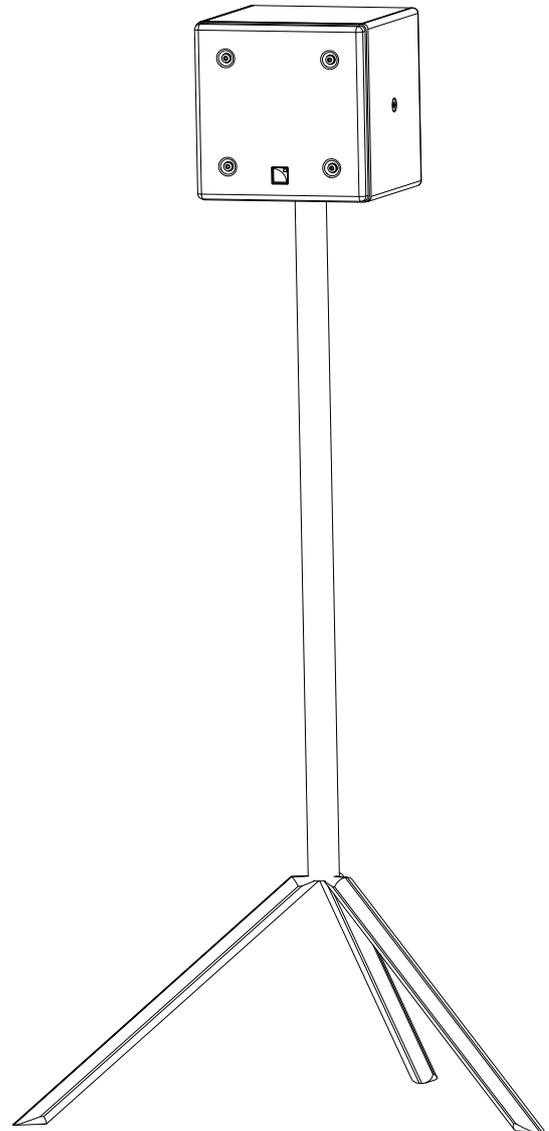
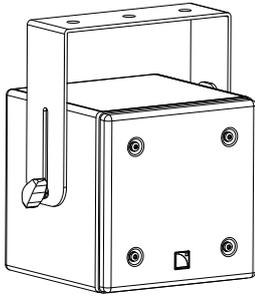


5XT



owner's manual (EN)



Document reference: 5XT owner's manual (EN) version 2.1

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Safety

Instructions

-  **Inspect the system before any deployment.**
Perform safety related checks and inspections before any deployment.
- Perform preventive maintenance at least once a year.**
Refer to the preventive maintenance section for a list of actions and their periodicity.
Insufficient upkeep of the product can void the warranty.
- If any safety issue is detected during inspection, do not use the product before performing corrective maintenance.**
Check for issues. A rigging system part or fastener is missing or loose. A rigging system part exhibits: bends, breaks, broken parts, corrosion, cracks, cracks in welded joints, deformation, denting, wear, holes. A safety cue or label is missing. A loose part is not adequately secured.
-  **Never incorporate equipment or accessories not approved by L-Acoustics.**
-  **Read all the related PRODUCT INFORMATION documents shipped with the products before exploiting the system.**
-  **Do not store the product on an unstable cart, stand, tripod, bracket, or table.**
-  **Beware of sound levels.**
Do not stay within close proximity of loudspeakers in operation.
Loudspeaker systems are capable of producing very high sound pressure levels (SPL) which can instantaneously lead to permanent hearing damage to performers, production crew and audience members. Hearing damage can also occur at moderate level with prolonged exposure to sound.
Check the applicable laws and regulations relating to maximum sound levels and exposure times.
-  **Work with qualified personnel for rigging the system**
Installation should only be carried out by qualified personnel that are familiar with the rigging techniques and safety recommendations outlined in this manual.
- Ensure personnel health and safety**
During installation and set-up personnel must wear protective headgear and footwear at all times. Under no circumstances is personnel allowed to climb on a loudspeaker assembly.
- Respect the Working Load Limit (WLL) of third party equipment.**
L-Acoustics is not responsible for any rigging equipment and accessories provided by third party manufacturers. Verify that the Working Load Limit (WLL) of the suspension points, chain hoists and all additional hardware rigging accessories is respected.
- Respect the maximum configurations and the recommended safety precautions.**
For safety issue, respect the maximum configurations outlined in this manual. To check the conformity of any configuration in regards with the safety precautions recommended by L-Acoustics, model the system in Soundvision and refer to the warnings in Mechanical Data section.
- Be cautious when flying a loudspeaker configuration.**
Before installing/raising the product, check each individual element to make sure that it is securely fastened to the adjacent element. Always verify that no one is standing underneath the product when it is being installed/raised. Never leave the product unattended during the installation process.
As a general rule, L-Acoustics recommends the use of secondary safety at all times.
- Be cautious when ground-stacking a loudspeaker array.**
Do not stack the loudspeaker array on unstable ground or surface. If the array is stacked on a structure, platform, or stage, always check that the latter can support the total weight of the array.
As a general rule, L-Acoustics recommends the use of safety straps at all times.

Risk of falling objects

Verify that no unattached items remain on the product or assembly.

Risk of tipping

Remove all rigging accessories before transporting a product or an assembly.

Take into account the wind effects on dynamic load.

When a loudspeaker assembly is deployed in an open air environment, wind can produce dynamic stress to the rigging components and suspension points.

If the wind force exceeds 6 bft (Beaufort scale), lower down and/or secure the product or the assembly.

**Intended use**

This system is intended for use by trained personnel for professional applications.



As part of a continuous evolution of techniques and standards, L-Acoustics reserves the right to change the specifications of its products and the content of its documents without prior notice.

Check www.l-acoustics.com on a regular basis to download the latest document and software updates.

**Long term exposure to extreme conditions may damage the product.**

For more information, refer to the **Products weather protection** document, available on the website.

**Read the maintenance section of this document before servicing the product.****Contact L-Acoustics for advanced maintenance.**

Any unauthorized maintenance operation will void the product warranty.



This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

Introduction

5XT ultra compact enclosure



5XT is an ultra-compact coaxial system designed for short throw sound reinforcement applications requiring minimum visual impact.

5XT features a 1" diaphragm compression driver coaxially loaded by a 5" low-mid frequency transducer mounted in a bassreflex cabinet. 5XT operates from 95 Hz to 20 kHz. The coaxial transducer arrangement produces a 110° axisymmetric directivity output with a smooth tonal response free of secondary lobes over the entire frequency range.

The internal passive crossover network uses custom filters. The L-Acoustics amplified controllers L-Drive parameters ensure the linearization and protection of the transducers.

How to use this manual

The 5XT owner's manual is intended for all actors involved in the system design, implementation, preventive and corrective maintenance of the 5XT system. It must be used as follows:

1. Read the technical description for an overview of all system elements, their features, and their compatibilities.
 - [Electro-acoustical description](#) (p.10)
 - [Rigging system description](#) (p.12)
2. Prepare the system configuration. Consider the mechanical limits and the available acoustical configurations.
 - [Mechanical safety](#) (p.13)
 - [Loudspeaker configurations](#) (p.15)
3. Before rigging the system, perform mandatory inspections and functional checks.
 - [Inspection and preventive maintenance](#) (p.17)
4. To deploy the system, follow the step-by-step rigging instructions and refer to the cabling schemes.
 - [Rigging procedures](#) (p.22)
 - [Connection to LA amplified controller](#) (p.25)

As part of a continuous evolution of techniques and standards, L-Acoustics reserves the right to change the specifications of its products and the content of its document without prior notice. Please check www.l-acoustics.com on a regular basis to download the latest document and software updates.

Contact information

For information on advanced corrective maintenance:

- contact your Certified Provider or your L-Acoustics representative
- for Certified Providers, contact the L-Acoustics customer service: customer.service@l-acoustics.com

Symbols

The following symbols are used in this document:

-  This symbol indicates a potential risk of harm to an individual or damage to the product. It can also notify the user about instructions that must be strictly followed to ensure safe installation or operation of the product.
-  This symbol notifies the user about instructions that must be strictly followed to ensure proper installation or operation of the product.
-  This symbol notifies the user about complementary information or optional instructions.

System components

Loudspeaker enclosures

5XT	2-way passive coaxial enclosure: 5" LF + 1" HF diaphragm
SB15m	High power compact subwoofer : 1 x 15"

Powering and driving system

LA2Xi / LA4X / LA8 / LA12X	Amplified controller with DSP, preset library and networking capabilities
----------------------------	---



Refer to the LA2Xi / LA4X / LA8 / LA12X owner's manual for operating instructions.

Loudspeaker cables

SP cables	4-point speakON loudspeaker cables (4 mm ² gauge) SP cables come in four sizes: SP.7 (0.7 m/2.3 ft), SP5 (5 m/16.4 ft), SP10 (10 m/32.8 ft) and SP25 (25 m/82 ft)
SP-Y1	breakout cable for two passive enclosures (2.5 mm ² gauge) provided with a CC4FP adapter 4-point speakON to 2 x 2-point speakON
DO	8-point PA-COM loudspeaker cables (4 mm ² gauge) DO cables come in three sizes: DO.7 (0.7 m/2.3 ft), DO10 (10 m/32.8 ft) and DO25 (25 m/82 ft)
DOSUB-LA8	breakout cable for four passive enclosures (4 mm ² gauge) 8-point PA-COM to 4 x 2-point speakON
speaker cable	2.5 mm ² cable Speaker cable used to connect enclosures in parallel. Adapt the cable length to the installation.
custom 2-point speakON cable	2-point speakON cable (2.5 mm ² gauge) to bare wire cable This cable needs to be custom made.



Information about the connection of the enclosures to the LA amplified controllers is given in this document.

Refer to the LA2Xi / LA4X / LA8 / LA12X owner's manual for detailed instructions about the whole cabling scheme, including modulation cables and network.

Rigging elements

ETR5	Adjustable U-bracket: 5XT
5XT-SEALPLATE	Connector sealing plate for 5XT

Software applications

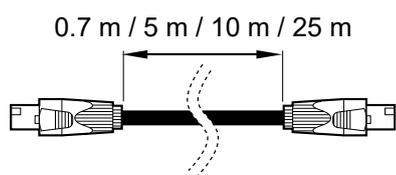
Soundvision	3D acoustical and mechanical modeling software
LA Network Manager	Software for remote control and monitoring of amplified controllers



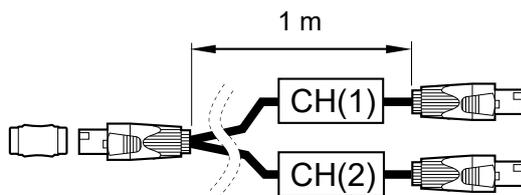
Refer to the **Soundvision** help.

Refer to the **LA Network Manager** help.

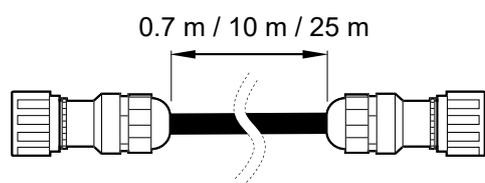
Loudspeaker cables



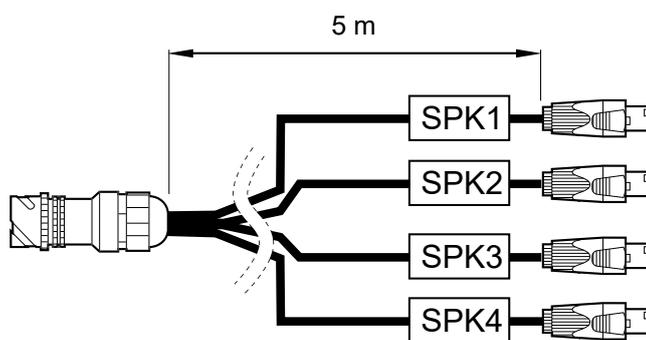
SP.7 / SP5 / SP10 / SP25



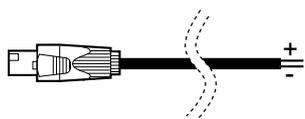
SP-Y1



DO.7 / DO10 / DO25

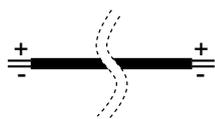


DOSUB-LA8



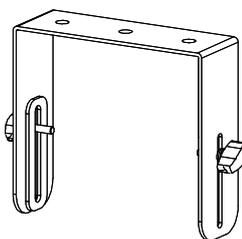
**2-point speakON
cable (2.5 mm² gauge)
to bare wire cable**

This cable needs to
be custom made.

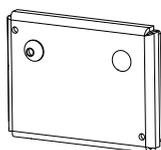


2.5 mm² cable

Rigging elements



ETR5



5XT-SEALPLATE

Electro-acoustical description

Preset description

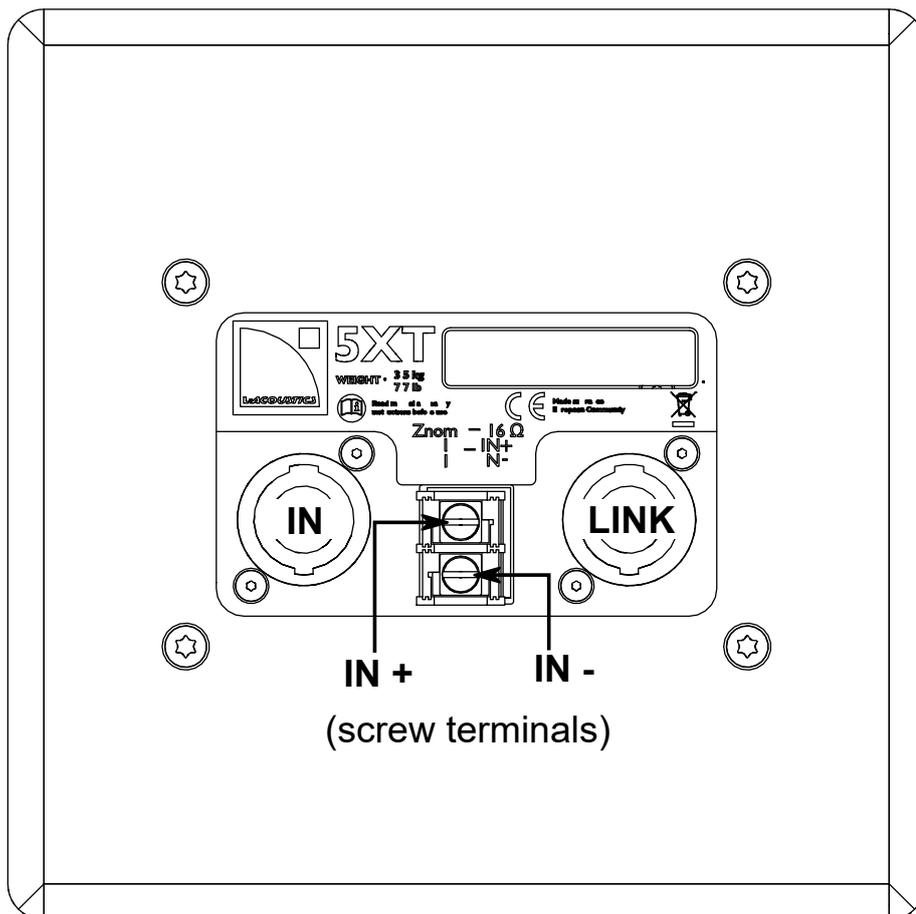
[5XT]

outputs	channels	routing	gain	delay	polarity	mute
OUT 1	PA	IN A	0 dB	0 ms	+	ON
OUT 2	PA	IN A	0 dB	0 ms	+	ON
OUT 3	PA	IN B	0 dB	0 ms	+	ON
OUT 4	PA	IN B	0 dB	0 ms	+	ON

[SB15_100]

outputs	channels	routing	gain	delay	polarity	mute
OUT 1	SB	IN A	0 dB	0 ms	+	ON
OUT 2	SB	IN A	0 dB	0 ms	+	ON
OUT 3	SB	IN A	0 dB	0 ms	+	ON
OUT 4	SB	IN A	0 dB	0 ms	+	ON

Connectors



The 5XT is a 2-way passive enclosure equipped with two 4-point speakON connectors wired in parallel and 2 screw terminals.

The IN connector allows receiving the audio signals. The LINK connector allows routing them to another 5XT enclosure in parallel.

Each screw terminal acts as IN and LINK. SpeakON connectors can be used interchangeably as IN or LINK connectors.



ELECTRICAL HAZARD

Risk of electrical injuries.

Do not touch the screw terminals when they are connected to a powered amplified controller.

Turn off the amplified controller before any operation on the terminals.

Internal pinout for L-Acoustics 2-way passive enclosures

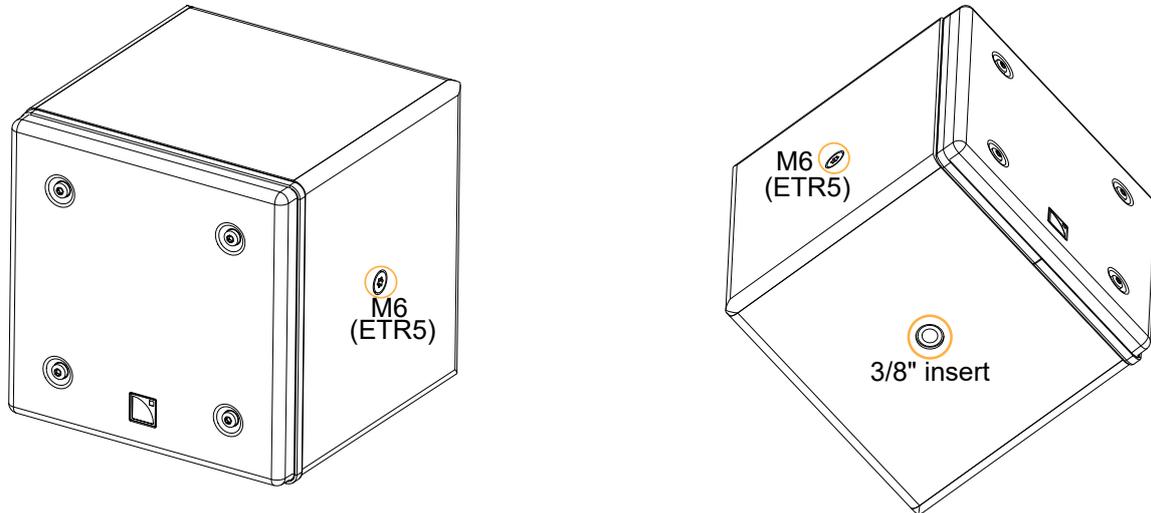
speakON points	1 +	1 -	2 +	2 -
Transducer connectors	+	-	Not linked	Not linked

Rigging system description

5XT

5XT features one M6 insert and screw on each side to connect ETR5.

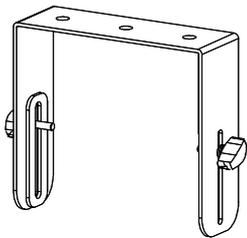
One 3/8" microphone-stand insert is available on the bottom face of 5XT for pole-mounted configurations.



Always put the screws back into place to avoid leaks.

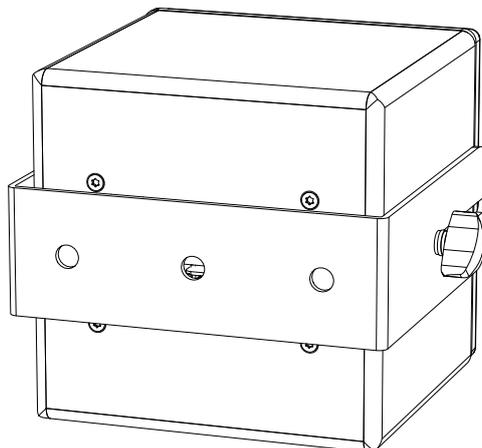
ETR5

ETR5 is a U-bracket compatible with 5XT.



It can be used to mount one 5XT on the wall or under the ceiling, with site angle adjustment.

When the 5XT is stored, the ETR5 can be used to protect the connectors at the back of the enclosure as illustrated below.



Mechanical safety

Flown configurations

The 5XT rigging system complies with 2006/42/EC: Machinery Directive. It has been designed following the guidelines of BGV-C1.

2006/42/EC: Machinery Directive specifies a safety factor of 4 against the rupture. The flown deployments described in this manual achieve a safety factor of **5 or more**.

The **safe limit** gives the maximum number of elements for which the safety factor is compliant with the 2006/42/EC: Machinery Directive, within the use defined in this manual and regardless of the other deployment parameters (site angles, inter-element angles, etc.).

The **maximum limit** gives the maximum number of elements for which the safety factor can be compliant with the 2006/42/EC: Machinery Directive, when the other deployment parameters provide the best mechanical conditions.

5XT

configuration	rigging accessory	safe / maximum limit
wall-mounted	ETR5	1
ceiling-mounted	ETR5	1

Other configurations

For other configurations, respect the recommended maximum limit for optimal stability.

5XT

configuration	rigging accessory	safe / maximum limit
Pole-mounted	No rigging accessory	1

Assessing mechanical safety

Mechanical safety of the rigging system

Before any installation, always model the system in Soundvision and check the **Mechanical Data** section for any stress warning or stability warning.

In order to assess the actual safety of any array configuration before implementation, refer to the following warnings:

Rated working load limit (WLL) is not enough

The rated WLL is an indication of the element resistance to tensile stress. For complex mechanical systems such as loudspeaker arrays, WLLs cannot be used per se to determine the maximum number of enclosures within an array or to assess the safety of a specific array configuration.

Mechanical modeling with Soundvision

The working load applied to each linking point, along with the corresponding safety factor, will depend on numerous variables linked to the composition of the array (type and number of enclosures, splay angles) and the implementation of the flying or stacking structure (number and location of flying points, site angle). This cannot be determined without the complex mechanical modeling and calculation offered by Soundvision.

Assessing the safety with Soundvision

The overall safety factor of a specific mechanical configuration always corresponds to the lowest safety factor among all the linking points. Always model the system configuration with the Soundvision software and check the **Mechanical Data** section to identify the weakest link and its corresponding working load. By default, a stress warning will appear when the mechanical safety goes beyond the recommended safety level.

Safety of ground-stacked arrays in Soundvision

For ground-stacked arrays, a distinct stability warning is implemented in Soundvision. It indicates a tipping hazard when the array is not secured to the ground, stage or platform. It is the user's responsibility to secure the array and to ignore the warning.

Additional safety for flown arrays

When flying an array, use available holes to implement a secondary safety.

Considerations must be given to unusual conditions

Soundvision calculations are based on usual environmental conditions. A higher safety factor is recommended with factors such as extreme high or low temperatures, strong wind, prolonged exposition to salt water, etc. Always consult a rigging specialist to adopt safety practices adapted to such a situation.

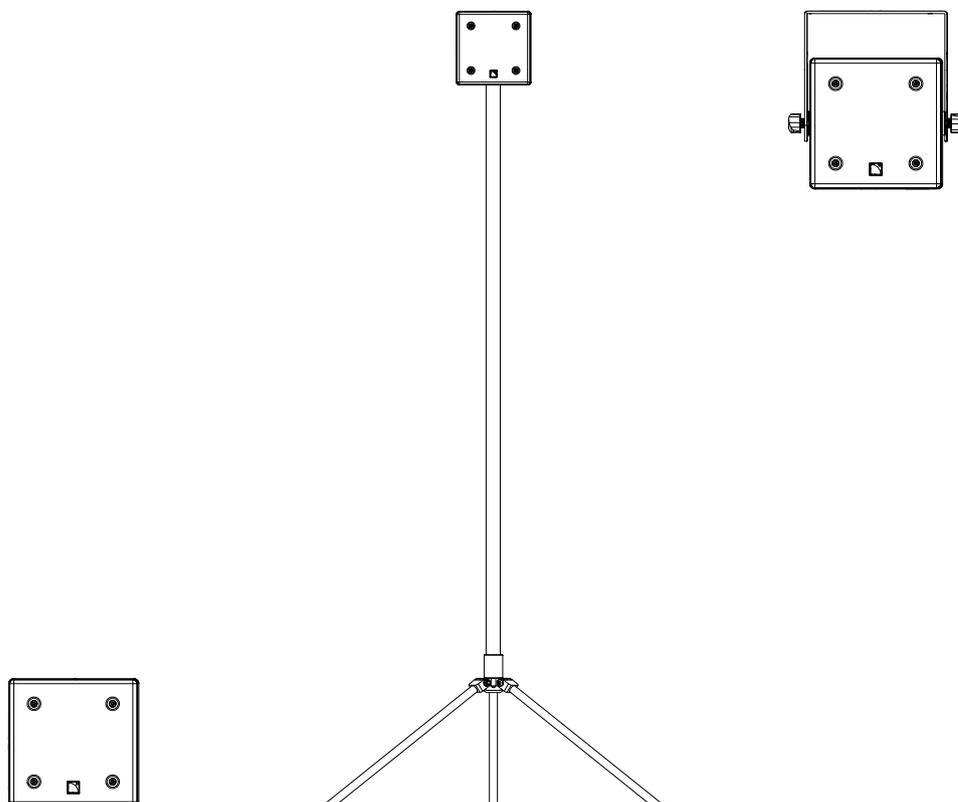
Loudspeaker configurations

5XT point source

In this configuration, the 5XT system operates over the nominal frequency range of the enclosure.

The [5XT] preset delivers a reference frequency response in short throw applications.

5XT is driven by the LA2Xi / LA4X / LA8 / LA12X amplified controllers.



Enclosure	5XT
Preset	[5XT]
Frequency range (-10 dB)	95 Hz - 20 kHz

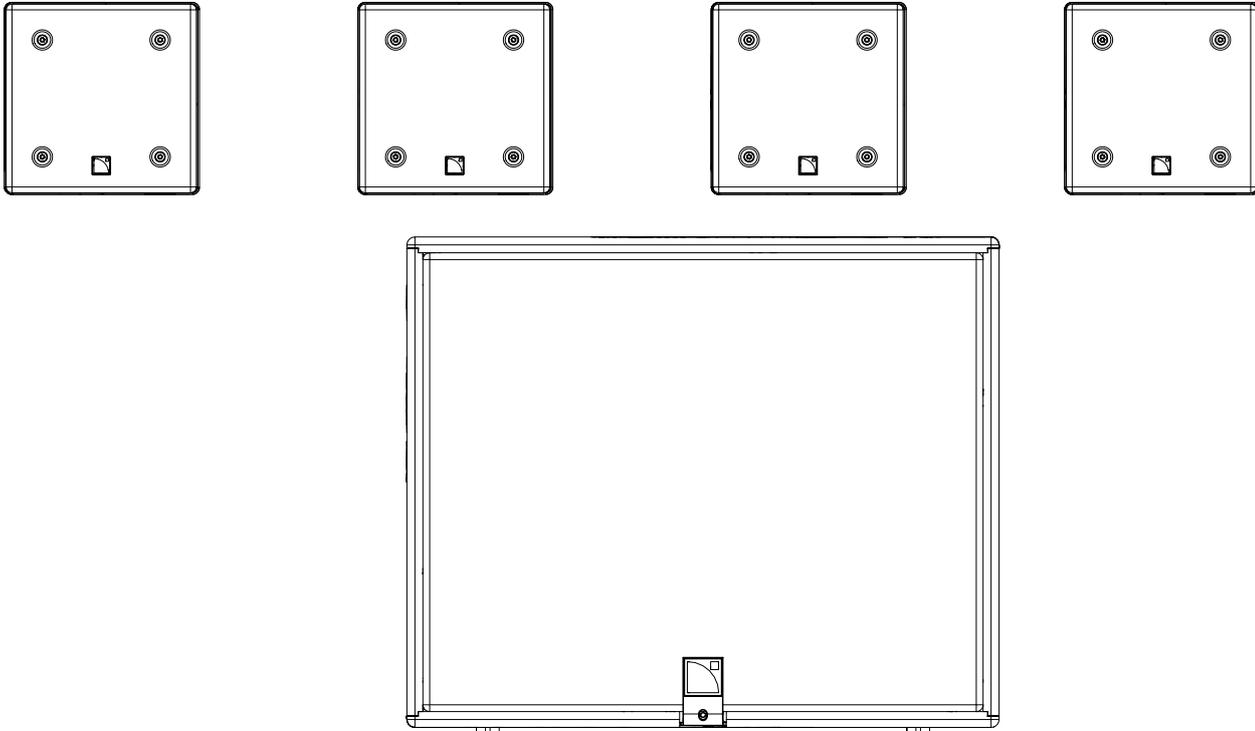
5XT point source with low-frequency element

In a typical distributed configuration with SB15m, the bandwidth of the 5XT system is extended down to 40 Hz.

The 5XT enclosure is driven with the same preset as in point source configuration.

The [SB15_100] preset provides SB15m with an upper frequency limit at 100 Hz.

5XT and SB15m are driven by the LA2Xi / LA4X / LA8 / LA12X amplified controllers.



Enclosure	5XT	SB15m
Preset	[5XT]	[SB15_100]
Frequency range (-10 dB)	40 Hz - 20 kHz	

Inspection and preventive maintenance

How to do preventive maintenance

Inspect the system before any deployment and after any corrective maintenance operation.

Perform preventive maintenance at least once a year.

Refer to the maintenance manuals for advanced maintenance.

Rigging and hardware

Refer to the [Mechanical system overview](#) (p.17) to identify critical parts of the system.

Acoustics

Perform the [Enclosure check](#) (p.19).

Perform the [Listening test](#) (p.21) to detect any degradation in sound quality.

Mechanical system overview

Critical parts of the lifting chains are highlighted.

The  indicates a visual inspection. The  indicates a functional check.

Replacing screws

If a screw is loose, remove and replace it.

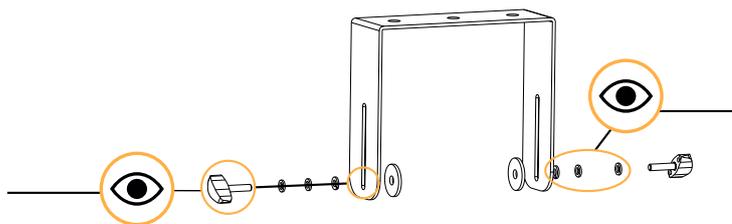
Always use the new screws provided in the repair kit.

If no new screw is available, add blue threadlocker before reusing the screw.

Do not apply more than the indicated torque.

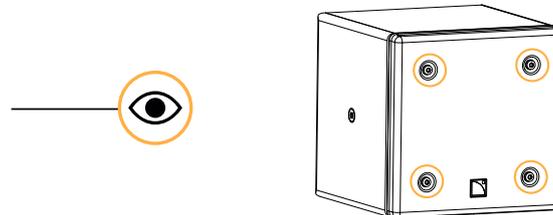
5XT flown with ETR5

Knob heads do not have cracks and are tightly secured to the body part

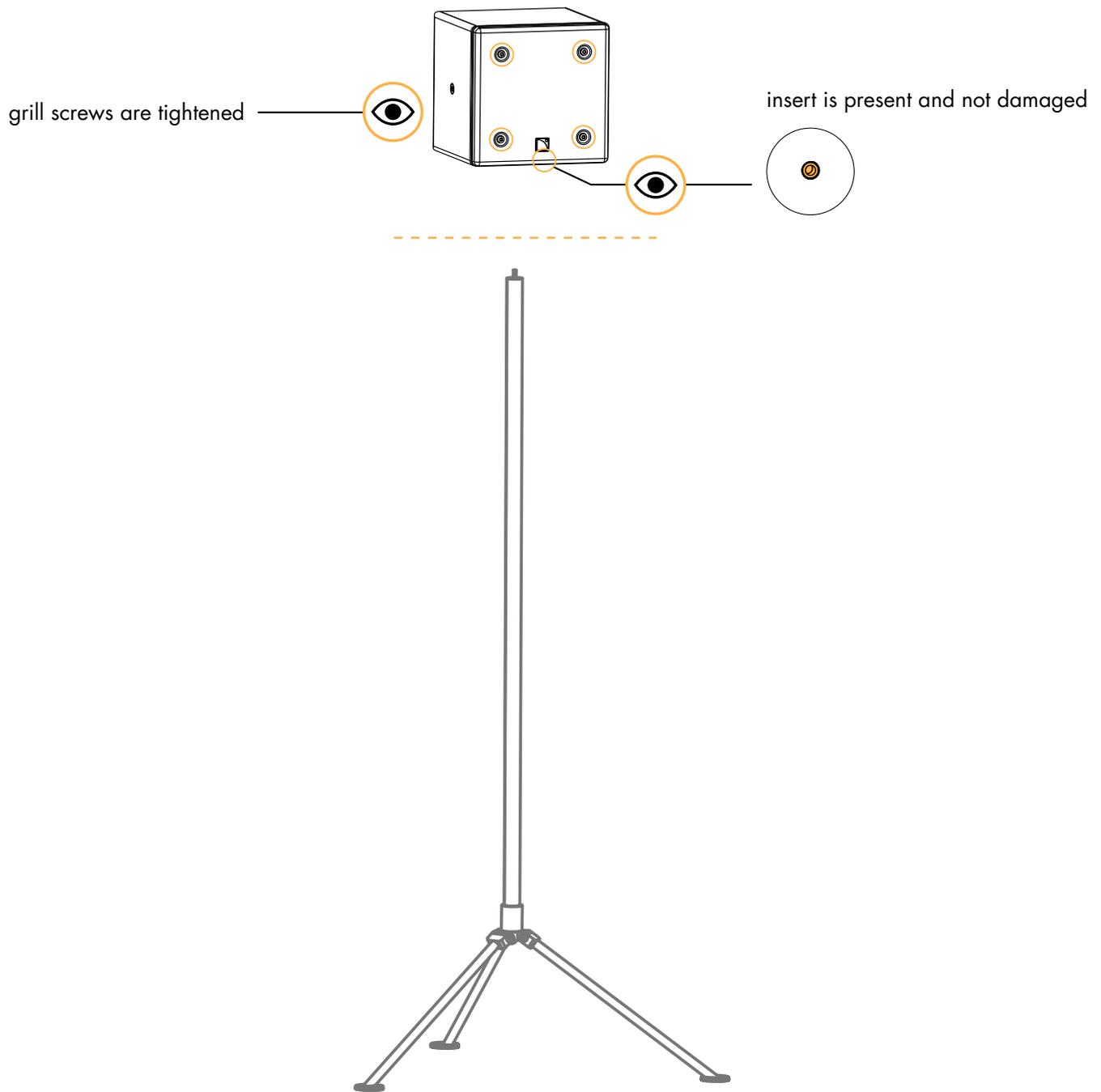


All washers are present and not damaged.

grill screws are tightened



5XT pole-mounted



Acoustical check

Enclosure check



This feature is available on:

LA4X
LA12X

ENCLOSURE CHECK measures impedance at the reference frequencies for the connected loudspeaker family. The measured impedance is compared to the expected range allowing for fast detection of loudspeakers presenting circuit continuity issues.



The results can be used for preliminary diagnosis but cannot replace a comprehensive quality control.

Prerequisite



ENCLOSURE CHECK measurements can only be reliable if the following requirements are met:

Environment and temperature:

- Ambient temperature must be comprised between 0 °C / 32 °F and 40 °C / 104 °F. Ideal temperature is 20 °C / 68 °F.
- Enclosures must be at room temperature. If warm from a recent high level use or recently moved from a cold environment, let the loudspeakers reach room temperature before starting.

Enclosures:

- Enclosures must be included in the embedded factory preset library.
- Enclosures must be in nominal operating conditions:
 - Remove covers or dollies obstructing the loudspeakers or the vents.
 - Check for obvious physical damage or air leak: visually inspect the grill, gasket, cabinet, and connector plate for loose, missing or damaged parts.

Connection:

- Use only 10 m / 30 ft 4 mm² / AWG 11 speaker cables.
- Do not connect enclosures in parallel.

Amplified controllers:

- LA4X must run at least firmware version 1.1.0.
- LA4X load sensors must be calibrated. Refer to the **Load Sensor Calibration Tool** technical bulletin for more information.
- LA4X must warm up for at least 10 minutes after power up. Do not power off, reboot or switch to standby mode to avoid resetting the countdown.
- Load a preset corresponding to the connected loudspeaker's family. Presets from the user memories may be used on condition they are made of presets supported in the embedded factory preset library.

Procedure

1. Power up the amplified controller. Let LA4X warm up for at least 10 minutes.
2. Connect the loudspeaker enclosures to the amplified controller.
3. Load a preset from or built from the embedded library corresponding to the connected loudspeaker family.
4. On the amplified controller, use the encoder wheel to select **MONITORING & INFO**. Press the OK key or the encoder wheel to validate.
5. Use the encoder wheel to select **ENCLOSURE CHECK**.



Beware of sound levels.

Although the sound pressure levels generated for the ENCLOSURE CHECK are moderate, do not stay within close proximity of the loudspeakers and consider wearing ear protection.

6. Press the OK key or the encoder wheel to launch the ENCLOSURE CHECK.

The amplified controller generates short sinusoidal signals simultaneously for each connected output.

The amplified controller displays the results for each output.

7. Depending on the displayed results, follow the instructions in the table.

result	interpretation	instructions
OK	measured impedance is within expected range	enclosure is in working order electrically
?	unsupported preset family	only supported enclosures should be tested
NC	Not Connected	if cables are connected: a. inspect the cables and connections b. go to step 8 (p.20)
NOK	measured impedance is not within expected range	a. check that all the prerequisites are met, in particular that the loaded preset corresponds to the connected speaker's family b. inspect the cables and connections c. go to step 8 (p.20)
UNDEF	measured impedance is undefined	

8. Under NC, NOK and UNDEF results, press and hold the corresponding OUT key.

The amplified controller displays:

- the tested frequencies,
- information on the measured impedance:
 - OPEN for open circuit (found in NC results),
 - SHORT for short circuit (found in NOK results), or
 - a percentage of variation from the expected range (found in NOK and UNDEF results)
- the number of operational transducers out of the total

 Low variations from the expected range are acceptable: displayed percentage can be different from 0 and all transducers considered operational.

Listening test

enclosure	preset	usable bandwidth
SB15m	[SB15_100]	40 Hz - 120 Hz
5XT	[5XT]	95 Hz - 20 kHz

Procedure

1. Load the preset on an LA2Xi / LA4X / LA8 / LA12X amplified controller.
2. Connect a sinus generator to the amplified controller.



Risk of hearing damage

Set a low sound level to start and use ear protection to adjust before testing.

3. Scan the bandwidth focusing on the usable range.
The sound should remain pure and free of unwanted noise.

Troubleshooting for LF speakers

One or more LF speaker produces distorted, buzzing, rubbing, clicking, muffled or weak sound.

Possible causes

- The screws are not tightened with the appropriate torque.
- There is an air leak in the gasket.
- There is dust on the cone.
- The cone is damaged.
- The surround is torn or delaminated.
- The voice coil or the spider is damaged.

Procedure

1. Perform the speaker disassembly procedure.
2. Visually inspect the cables and the connectors.
3. Visually inspect the speaker cone, the voice coil and the spider.

If any damage is visible, replace the speaker.

4. Carefully clean the speaker with a dry cloth.
5. Perform the reassembly procedure.
Replace the speaker gasket and the screws.
Apply the recommended torque.

6. Repeat the listening test.

If the problem persists, replace the speaker.

Troubleshooting for HF drivers

One or more HF driver produces high-frequency harmonic distortions, strange vibrations or weak sound.

Possible causes

- There are foreign particles on the air gap.
- The screws used for reassembly are too loose.
- The diaphragm is damaged.

Remedy

Contact L-Acoustics for more instructions.

Rigging procedures

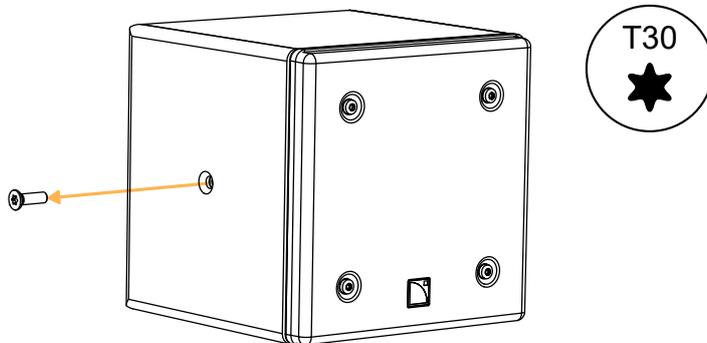
Flying 5XT

type of deployment	wall-mounting
	ceiling-mounting
rigging accessories	ETR5
additional material	2 x Ø10 mm / M10 screws and anchors (depending on the support material)
tools	torque screwdriver
	T30 Torx bit

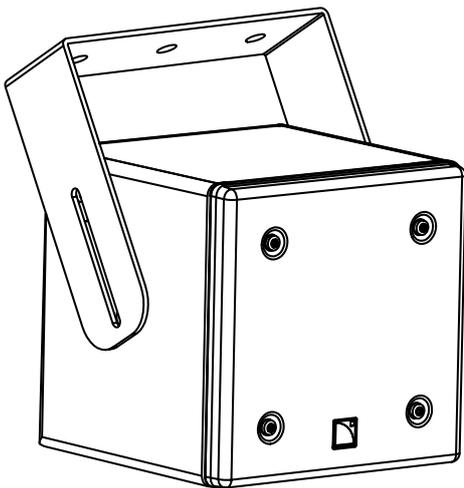
Assembly

Procedure

1. On both sides of the enclosure, remove the screws.

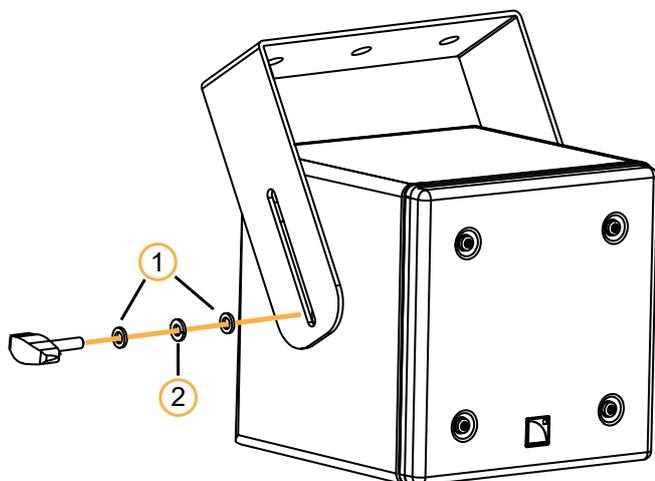


2. Secure the ETR5 to the wall or the ceiling using two Ø10 mm/M10 screws.
3. Position the enclosure inside the ETR5 bracket.

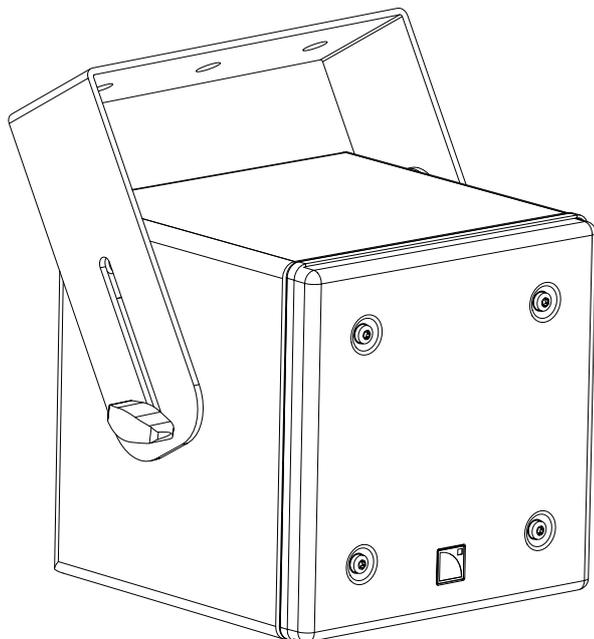


- 4.** On both sides, secure the assembly with the knobs.
Order the washers as indicated.

1	plain washer
2	grower washer



- 5.** Adjust the angle and tighten the knobs.



Pole-mounting

About this task

type of development	pole-mounting
rigging accessory	microphone stand

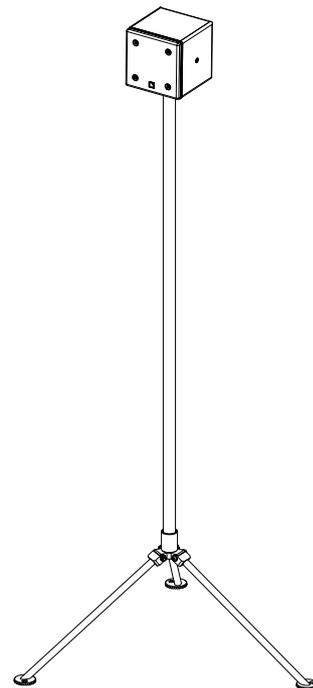
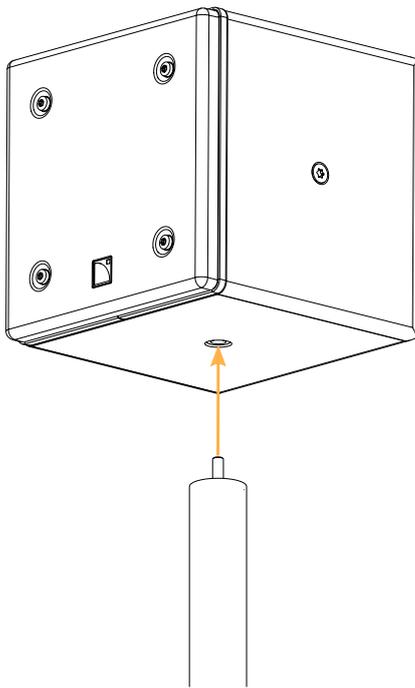


Risk of damaging the insert

Do not overtighten the screw.

Procedure

1. 5XT has a 3/8" insert. Use a 5/8" to 3/8" thread adapter for the microphone stand if necessary.
2. Screw the enclosure on the microphone stand.



Connection to LA amplified controller

Enclosure drive capacity per amplified controller

Make sure the total number of connected enclosures does not exceed the maximum number of enclosures per controller (refer to the footnotes).

 Refer to the **Amplification reference** technical bulletin for the latest information on compatibility with amplified controllers and cabling schemes for all enclosure types.

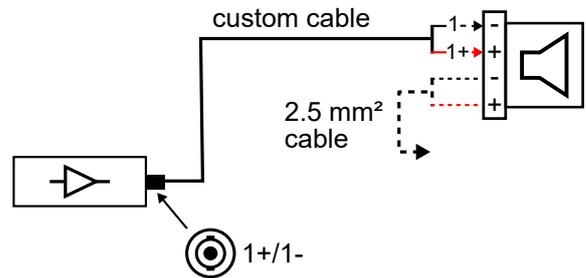
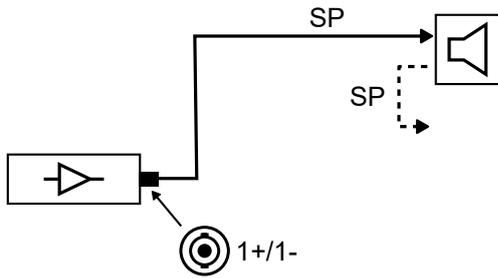
	LA2Xi per output* / total	LA4X per output* / total	LA8 per output* / total	LA12X per output* / total
5XT	4 / 16	4 / 16	6 / 24	6 / 24

* For passive loudspeakers, the value corresponds to the number of enclosures in parallel on the output. For active loudspeakers, the value corresponds to the number of sections in parallel on the output.

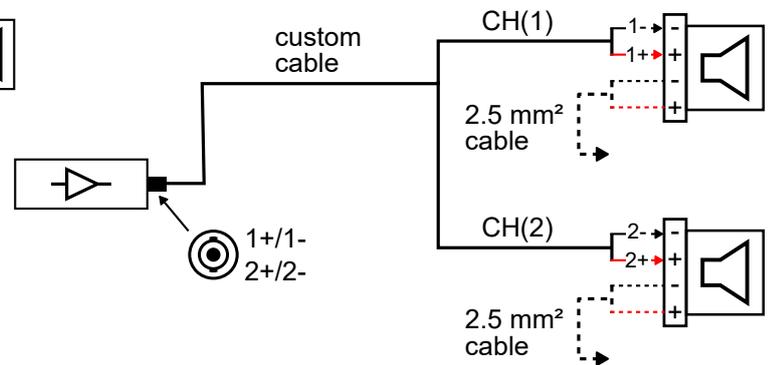
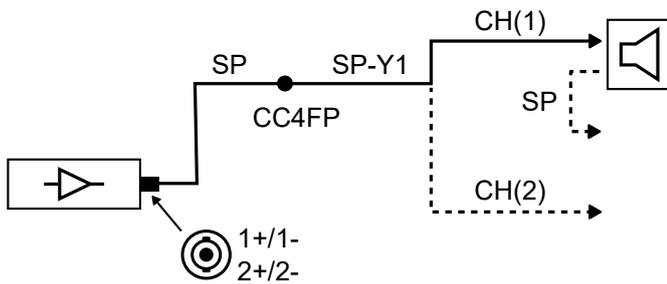
Cabling schemes for 5XT

Refer to the cabling schemes to connect the enclosures to different types of output connectors.

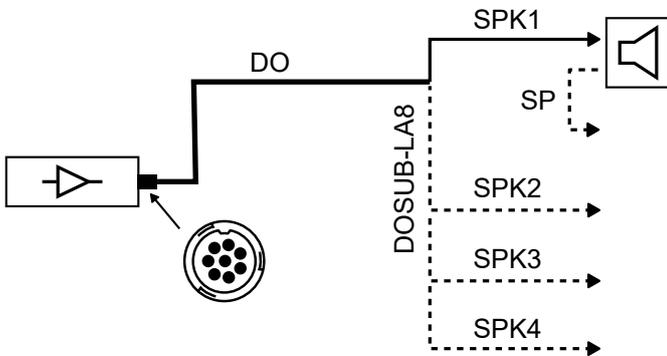
One-channel speakON output



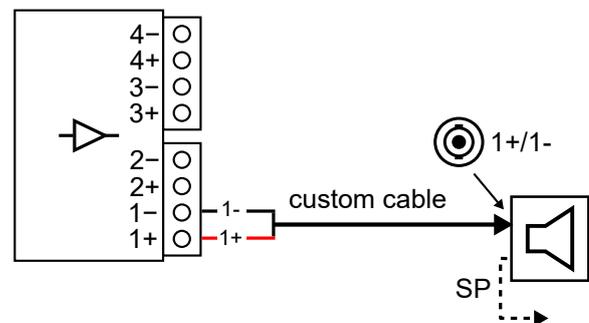
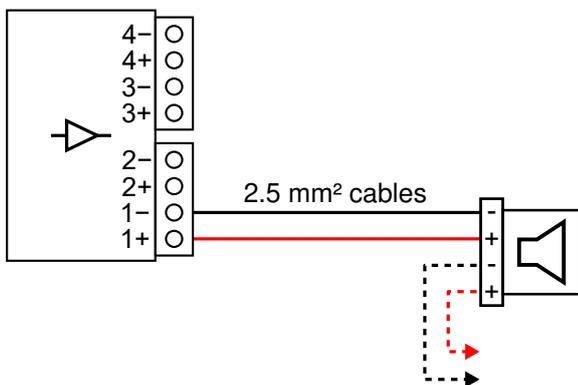
Two-channel speakON output



Four-channel CA-COM output



Terminal block output (LA2Xi)



Custom speakON to bare wire cable

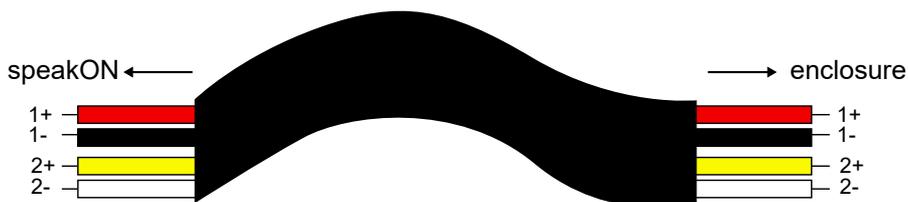
The Custom speakON to bare wire cable can be used to connect 5XT enclosures to a controlled amplifier using the screw terminals. Additional enclosures can then be connected in parallel with 2.5 mm² speaker wire instead of speakON cables.

This cable is not provided by L-Acoustics but it can be made from an SP cable.

Remove one of its speakON connectors to reveal two pairs of wires. Each wire is color-coded (red, black, yellow and white) and corresponds to a channel and polarity (1+ and 1-, 2+ and 2-).

The information given here only apply to SP cables. The color codes descibed here are specific to L-Acoustics cables and may be different for other manufacturers. Check in their documentation before any operation. Refer to the figure and table below to know which wire is associated with which speakON points.

Wire routing in a SP cable



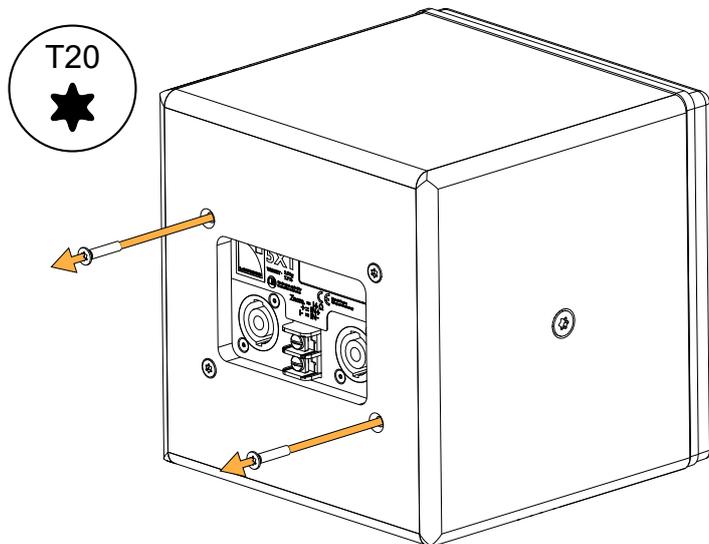
Custom speakON to bare wire cable routing

Wire color	SpeakON point	Transducer connector
Red	1 +	1 + first enclosure
Black	1 -	1 - first enclosure
Yellow	2 +	1 + second enclosure
White	2 -	1 - second enclosure

Securing 5XT-SEALPLATE

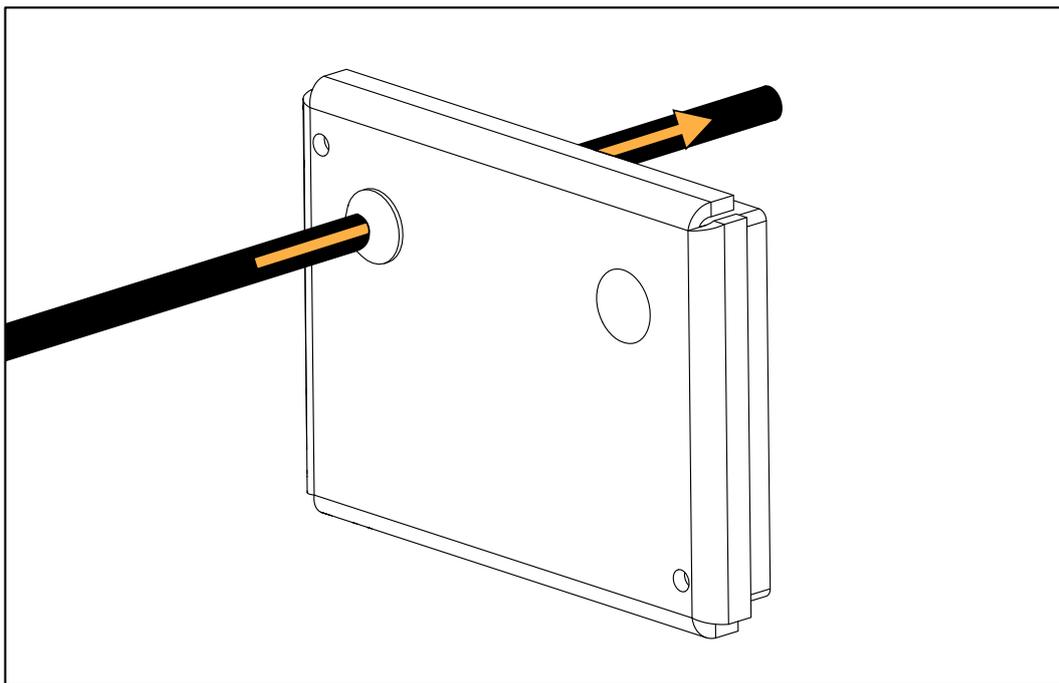
Procedure

1. Remove the two screws from the back of 5XT.

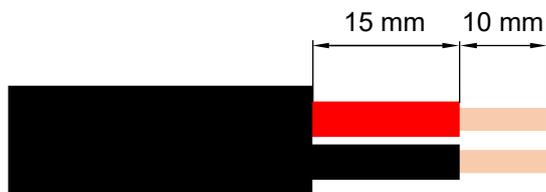


2. Insert the cable in the cable gland.

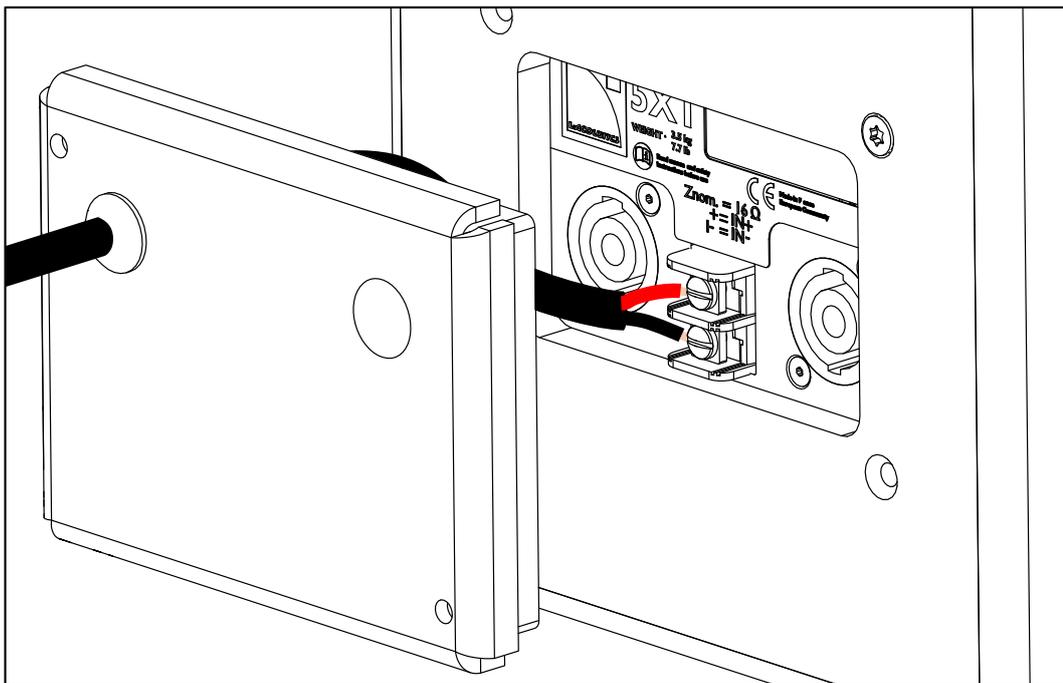
! The cable gland only fits cables with a gauge of up to 4 mm².



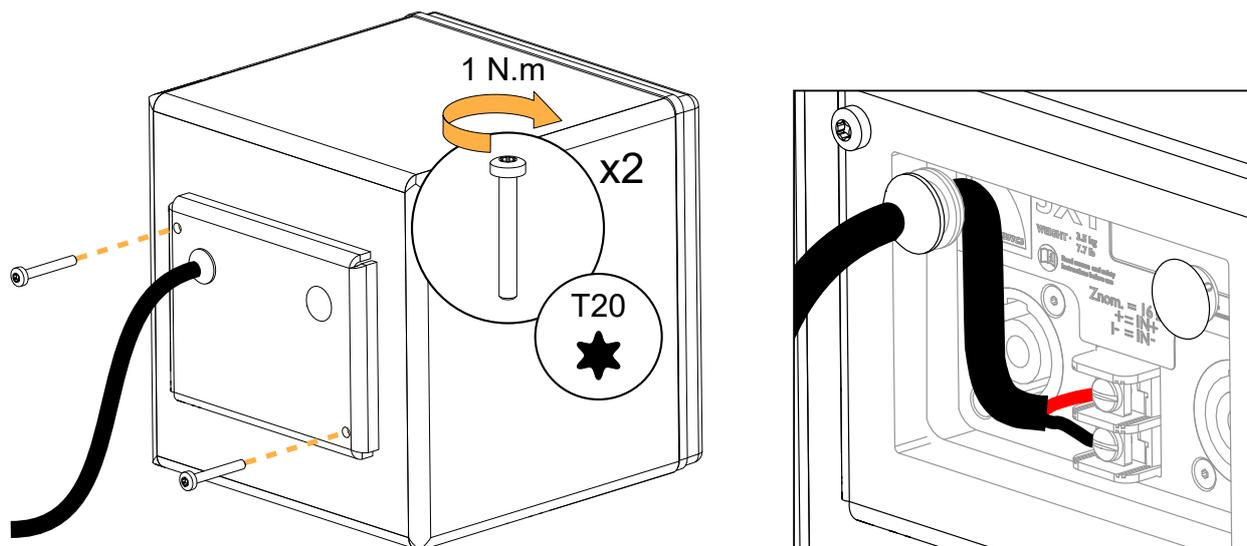
3. Strip the wires of the cable.



4. Secure the wires in the connectors.



5. Secure 5XT-SEALPLATE to 5XT.



Specifications

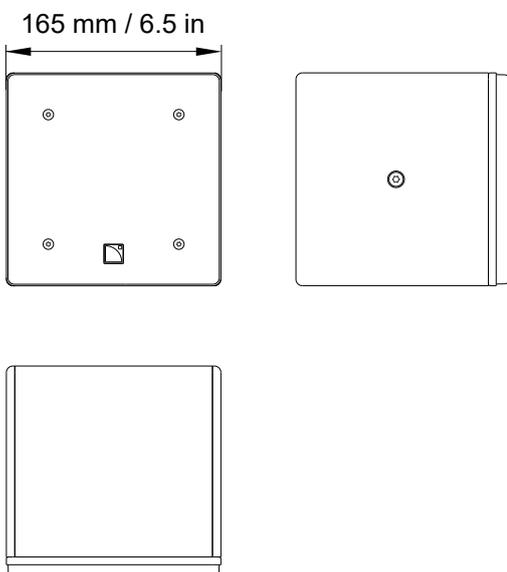
5XT specifications

Description	2-way passive coaxial enclosure: 5" LF + 1" HF diaphragm, amplified by LA2Xi / LA4X / LA8 / LA12X
Usable bandwidth (-10 dB)	95 Hz - 20 kHz ([5XT])
Maximum SPL¹	121 dB ([5XT])
Nominal directivity (-6 dB)	110° axisymmetric
Transducers	LF: 1 × 5" cone driver HF: 1 × 1" diaphragm compression driver
Acoustical load	LF: bass-reflex
Nominal impedance	16 Ω
Connectors	IN: 1 × 4-point speakON LINK: 1 × 4-point speakON IN/LINK: 2 × 2-point screw terminals
Rigging and handling	2 M6 inserts for ETR5 1 × 3/8" insert for microphone stand
Weight (net)	3.5 kg / 7.7 lb
Cabinet	premium grade Baltic birch plywood
Front	steel with anti-corrosion coating
Finish	dark grey brown Pantone 426 C pure white RAL 9010 custom RAL code on special order
IP	IP30 / IP54 ²

¹ Peak level measured at 1 m under free field conditions using pink noise with crest factor 4 (preset specified in brackets).

² IP54 is achieved with the 5XT-SEALPLATE connector sealing plate and a down-tilt angle of 20° and more.

5XT dimensions

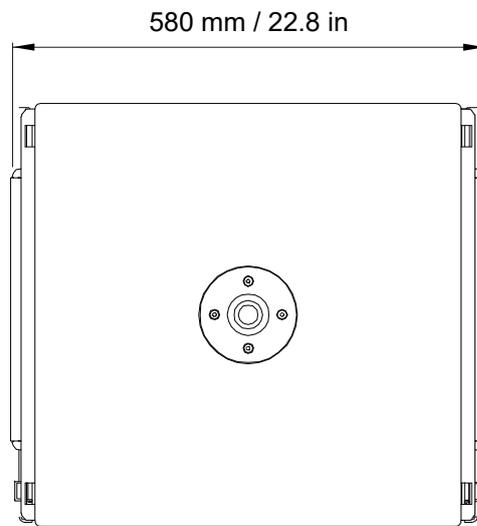
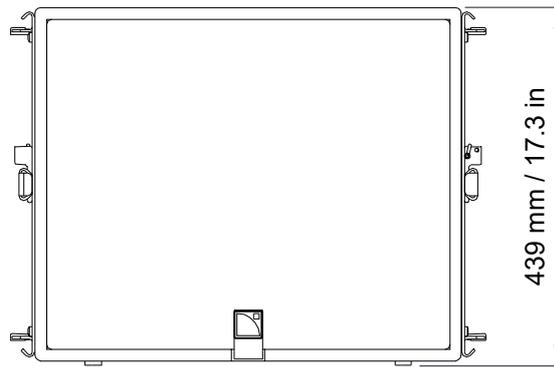
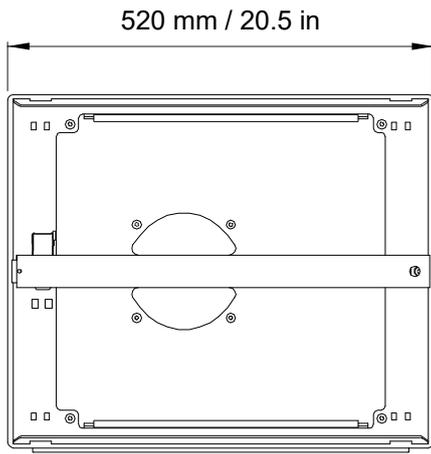


SB15m specifications

Description	High power compact subwoofer : 1 x 15" , amplified by LA2Xi / LA4 / LA4X / LA8 / LA12X
Low frequency limit	40 Hz ([SB15_100])
Maximum SPL¹	137 dB ([SB15_100]) with LA2Xi (bridge mode) / LA4X / LA12X 131 dB ([SB15_100]) with LA2Xi
Directivity	standard or cardioid
Transducers	1 x 15" cone driver
Acoustical load	bass-reflex, L-Vents
Nominal impedance	8 Ω
Connectors	IN: 1 x 4-point speakON LINK: 1 x 4-point speakON
Rigging and handling	2 handles 2 coupling bars and 2 locking tabs 1 x 35 mm pole socket
Weight (net)	36 kg / 79.4 lb
Cabinet	premium grade Baltic birch plywood
Front	coated steel grill acoustically neutral 3D fabric
Rigging components	high grade steel with anti-corrosion coating
Finish	dark grey brown Pantone 426 C pure white RAL 9010 custom RAL code on special order
IP	IP45

¹ Peak level at 1 m under half space conditions using pink noise with crest factor 4 (preset specified in brackets).

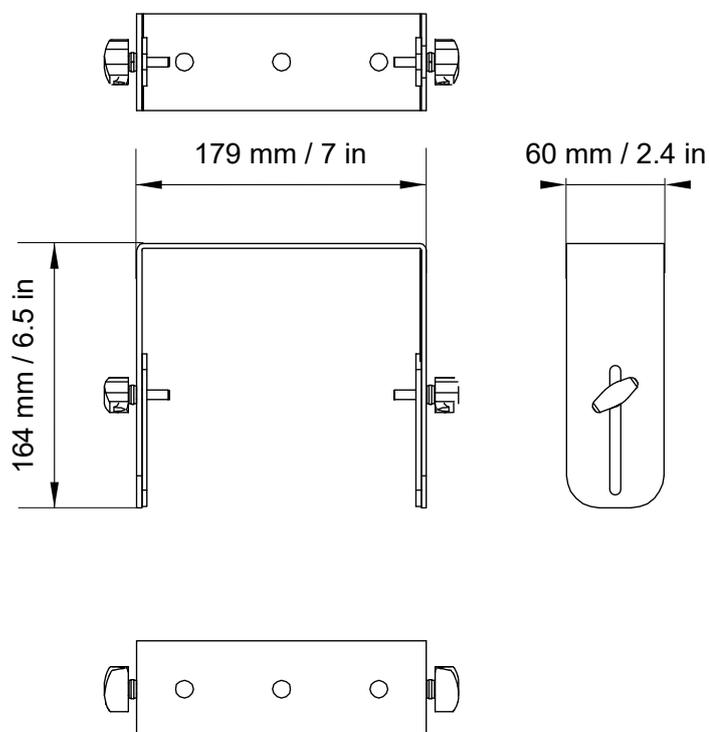
SB15m dimensions



ETR5 specifications

Description	Adjustable U-bracket: 5XT
Weight (net)	0.7 kg / 1.55 lb
Material	high grade steel with anti-corrosion coating

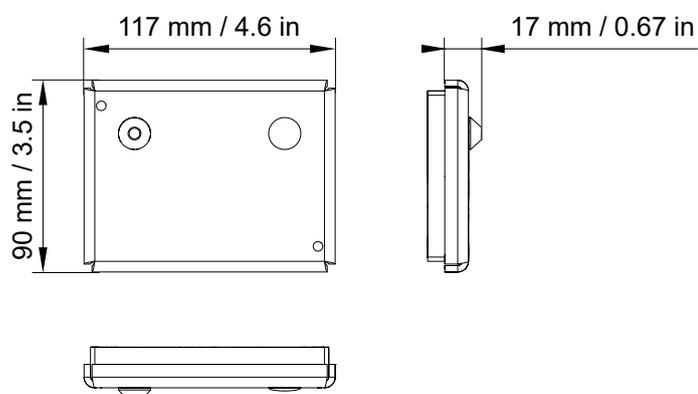
ETR5 dimensions



5XT-SEALPLATE specifications

Description	Connector sealing plate for 5XT
Weight (net)	0.32 kg / 0.7 lb
Material	steel with anti-corrosion coating

5XT-SEALPLATE dimensions



Appendix

Recommendation for speaker cables

Follow the recommended maximum length for loudspeaker cables to ensure minimal SPL attenuation.



Cable quality and resistance

Only use high-quality fully insulated speaker cables made of stranded copper wire.

Use cables with a gauge offering low resistance per unit length and keep the cables as short as possible.

The table below provides the recommended maximum length for loudspeaker cables depending on the cable gauge and on the impedance load connected to the amplifier.

cable gauge			recommended maximum length					
			8 Ω load		4 Ω load		2.7 Ω load	
mm ²	SWG	AWG	m	ft	m	ft	m	ft
2.5	15	13	30	100	15	50	10	33
4	13	11	50	160	25	80	17	53
6	11	9	74	240	37	120	25	80

Use the more detailed L-Acoustics calculation tool to evaluate cable length and gauge based on the type and number of enclosures connected. The calculation tool is available on our website:

<https://www.l-acoustics.com/en/installation/tools/>

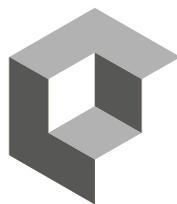


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