



MX412SE, MX418SE

Gooseneck Microphones

Shure MX400SE Series miniature gooseneck-mounted electret condenser microphones online user guide.
Version: 5.2 (2026-E)

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MX412SE, MX418SE Gooseneck Microphones

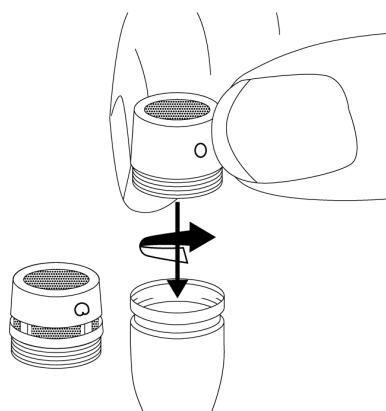
General Description

Shure Microflex® MX400SE Series microphones are miniature gooseneck-mounted electret condenser microphones designed primarily for speech and vocal pickup. Their high sensitivity and broad frequency range make them suitable for recording, as well as sound reinforcement applications.

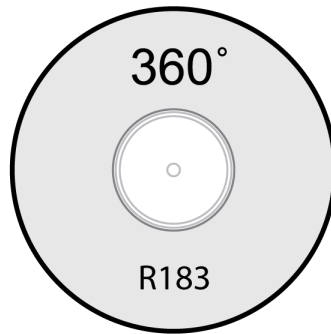
The MX400SE series can be screwed onto a mic stand or the supplied 5/8 in. 27-threaded flange. They can be easily changed from side exit to bottom exit to conceal the cabling. All models include an in-line preamplifier, a 3.66 m (12 ft.) cable.

- Wide dynamic range and frequency response for accurate sound reproduction
- Interchangeable cartridges that provide a choice of polar pattern for each application
- Shock mount provides over 20 dB of isolation from surface vibration noise
- Snap-fit foam windscreen
- RF filtering

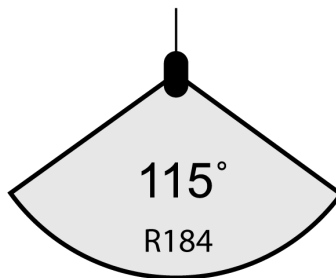
Interchangeable Cartridges



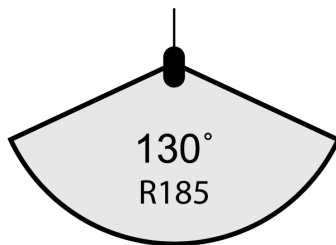
Microflex microphones use interchangeable cartridges that allow you to choose the polar pattern for different installations.



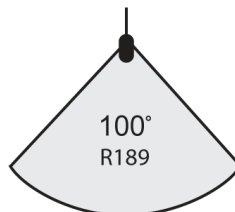
Omnidirectional



Supercardioid



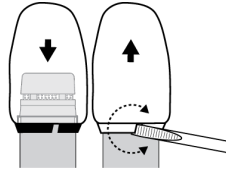
Cardioid



Mini-shotgun

Snap-Fit Windscreen

- Snap into the groove below the cartridge.
- To remove, spread the gap with a screwdriver or thumbnail.
- Provides 30 dB of "pop" protection.



RFI Filtering

Important: Microphones must be used with the RK100PK or RK202PK plate-mounted preamp to optimize RF immunity.

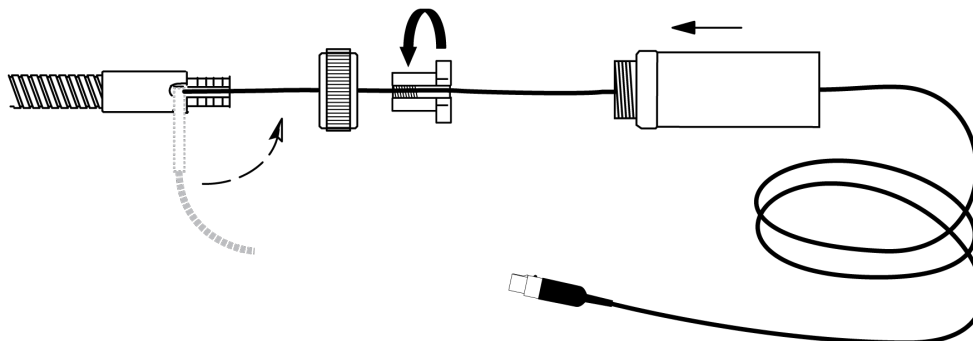
Microphone Placement

- Aim the microphone toward the desired source, such as the talker.
- Aim it away from any unwanted source, such as a loudspeaker.
- Place the tip of the microphone within 15 to 30 cm (6 to 12 inches) of the desired sound source.
- Always use the supplied windscreen or optional metal windscreen to control breath noise.
- If four or more microphones will be open at the same time, use of an automatic mixer is recommended.

Permanent Installation

Changing from Side Exit to Bottom Exit

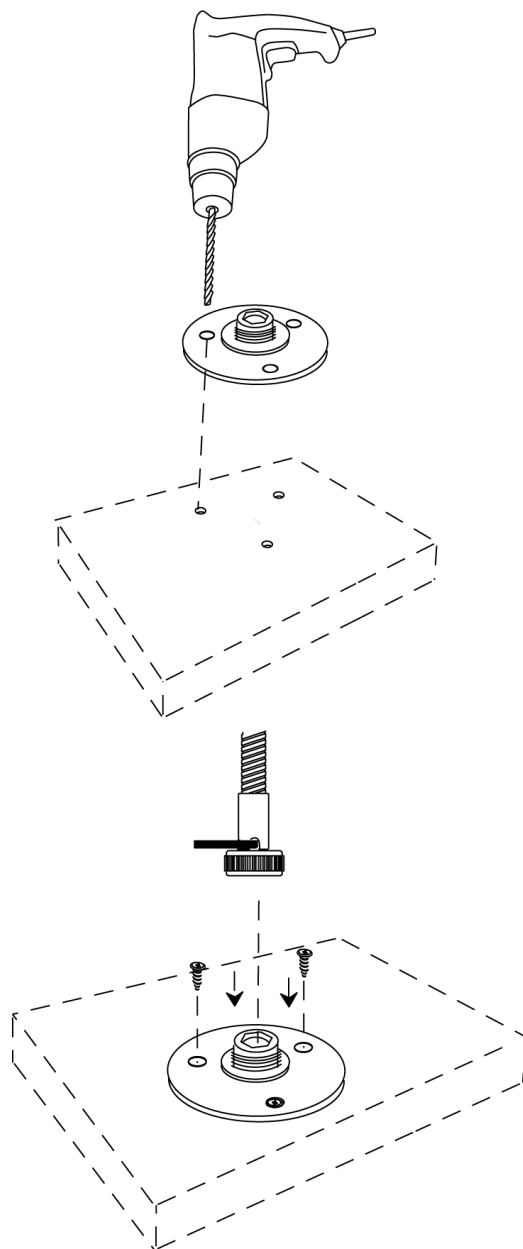
Do not cut the cable to reroute. This will compromise RF immunity.



Mount the microphone using one of the following methods.

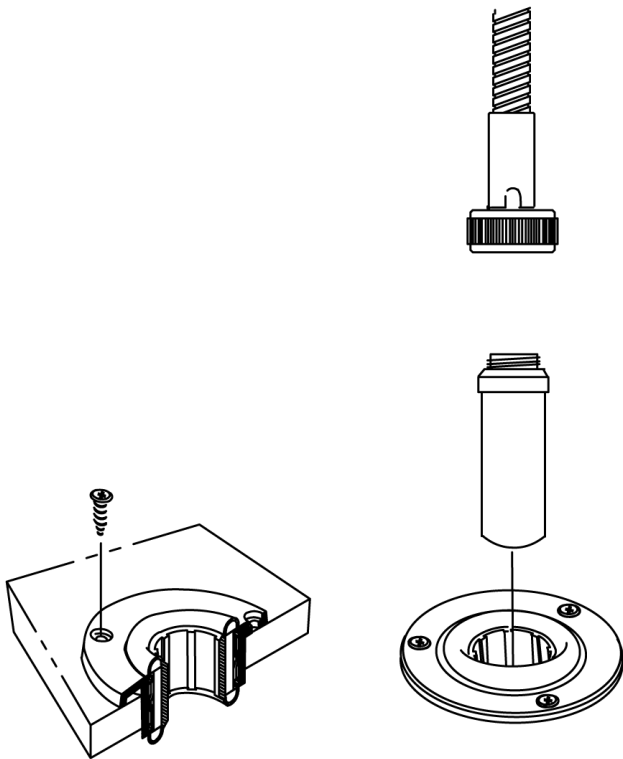
Flange

Slip the mounting flange retaining ring over the bottom of the preamplifier and slide it up until it is flush to the bottom of the flange. Then press the ring firmly into place.



Shock Mount

1. Drill a 44 mm (1-3/4 in.) diameter hole in desired mounting surface.
2. Mark and drill starter holes for screws, using shock mount as a template.
3. Secure shock mount to mounting surface with screws.
4. Thread the supplied adapter onto the microphone before inserting it into the shock mount.



Specifications

Type
Electret Condenser

Frequency Response
50 to 17000 Hz

Polar Pattern

MX412SE/C, MX418SE/C	Cardioid
MX412SE/S, MX418SE/S	Supercardioid

Output Impedance
180 Ω

Output Configuration
Active Balanced

Sensitivity
@ 1 kHz, open circuit voltage

Cardioid	−35 dBV/Pa(18 mV)
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Supercardioid	–34 dBV/Pa(21 mV)
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1 Pa=94 dB SPL

Maximum SPL

1 kHz at 1% THD, 1 k Ω load

Cardioid	124 dB
Supercardioid	123 dB

Self Noise

A-weighted

Cardioid	28 dB SPL
Supercardioid	27 dB SPL

Signal-to-Noise Ratio

Ref. 94 dB SPL at 1 kHz

Cardioid	66 dB
Supercardioid	68 dB

Dynamic Range

1 k Ω load, @ 1 kHz

96 dB

Common Mode Rejection

10 Hz to 100 kHz

45 dB, minimum

Clipping Level

at 1% THD

–6 dBV (0.5 V)

Polarity

Positive sound pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector

Environmental Conditions

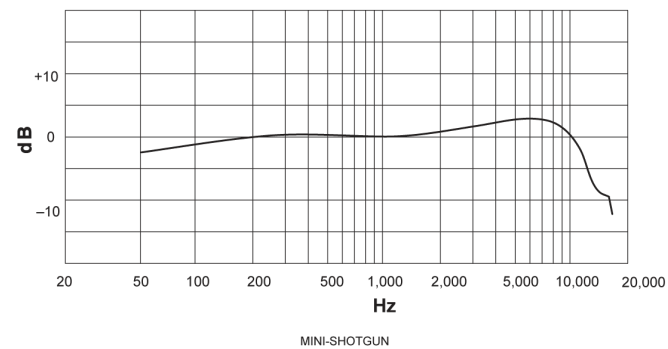
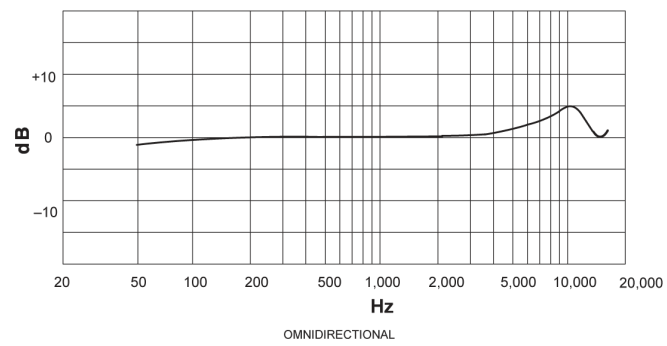
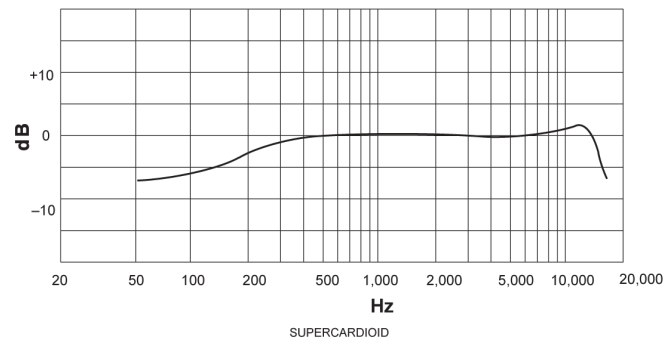
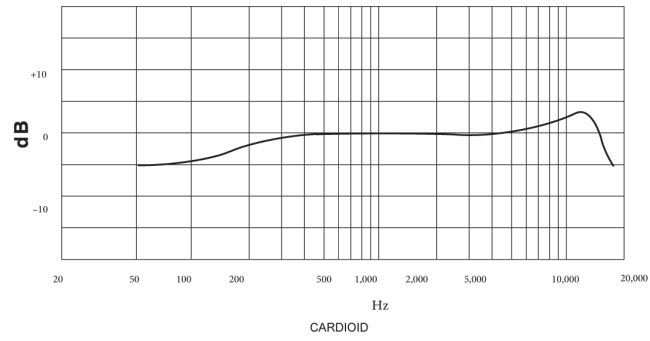
Operating Temperature	–18–57°C (0–135°F)
Storage Temperature	–29–74°C (–20–165°F)
Relative Humidity	0–95%

Power Requirements

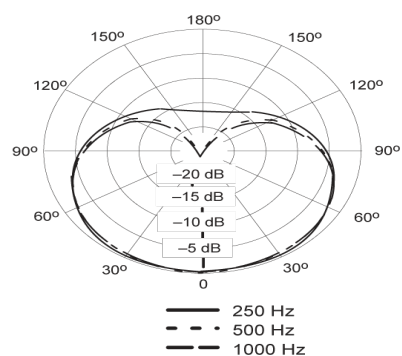
11–52 V DC, 2.0 mA

Cable

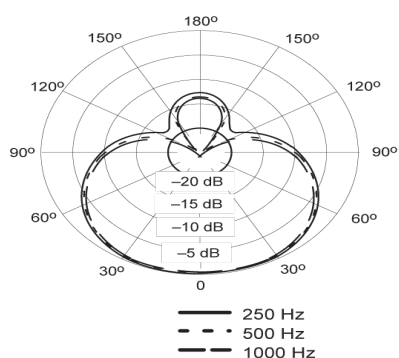
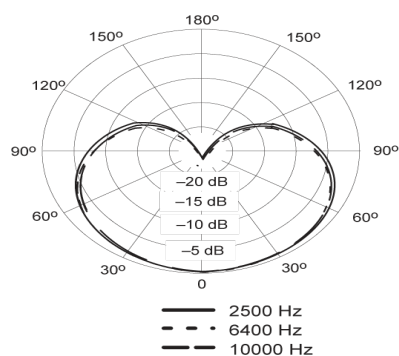
3.0 m (10 ft) , attached



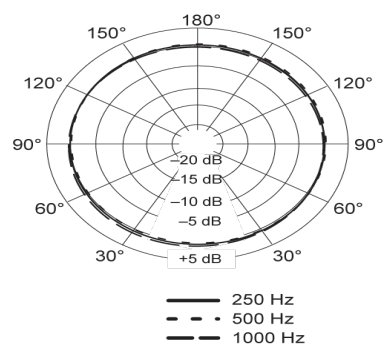
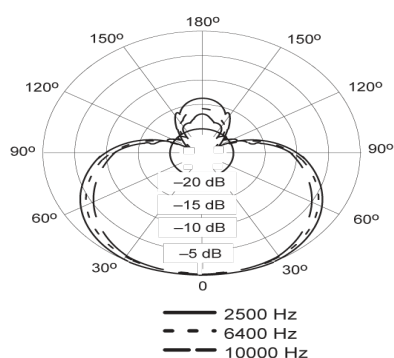
TYPICAL FREQUENCY RESPONSE



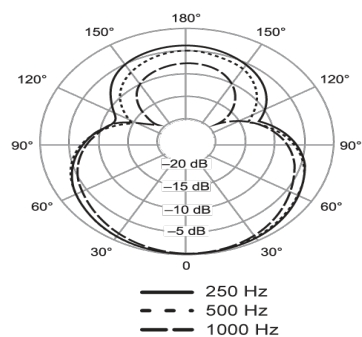
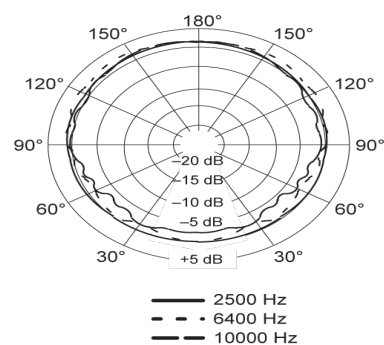
CARDIOID



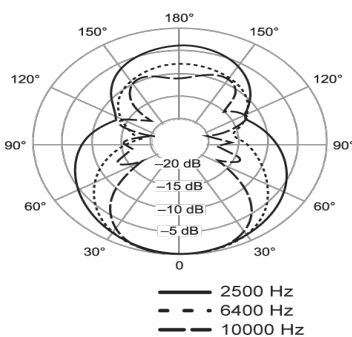
SUPERCARDIOID

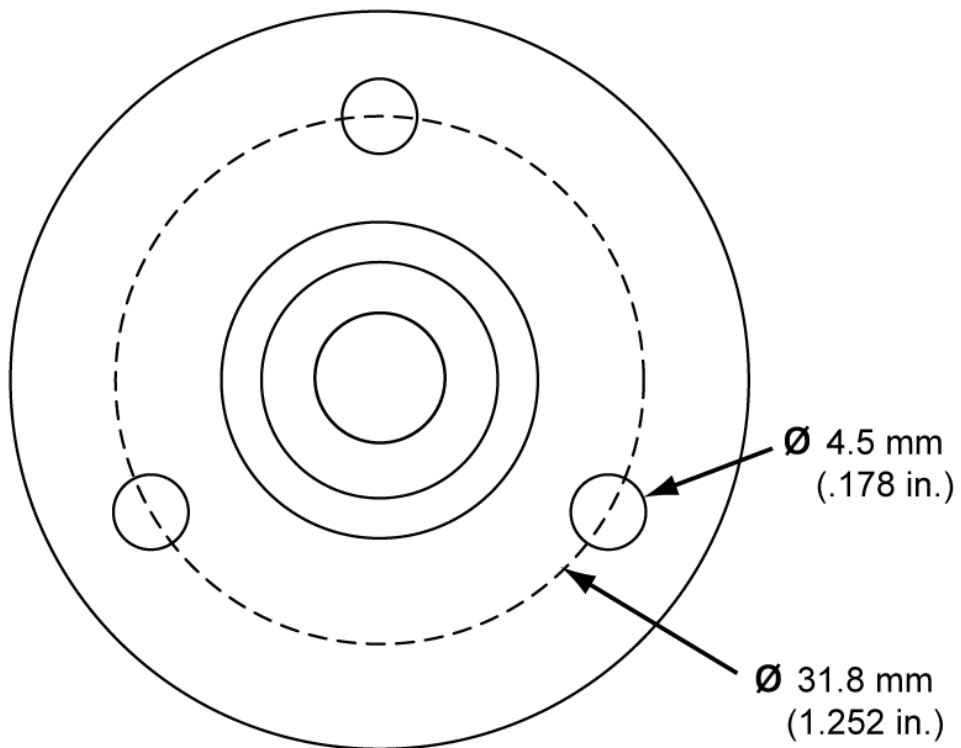
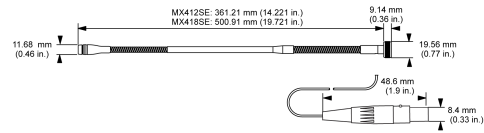


OMNIDIRECTIONAL



MINI-SHOTGUN





Certifications

Meets essential requirements of all applicable European Directives.

Eligible for CE marking.

The CE Declaration of Conformity can be obtained from Shure Incorporated or any of its European representatives. For contact information please visit www.shure.com

The CE Declaration of Conformity can be obtained from: www.shure.com/europe/compliance

Authorized European representative:

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