

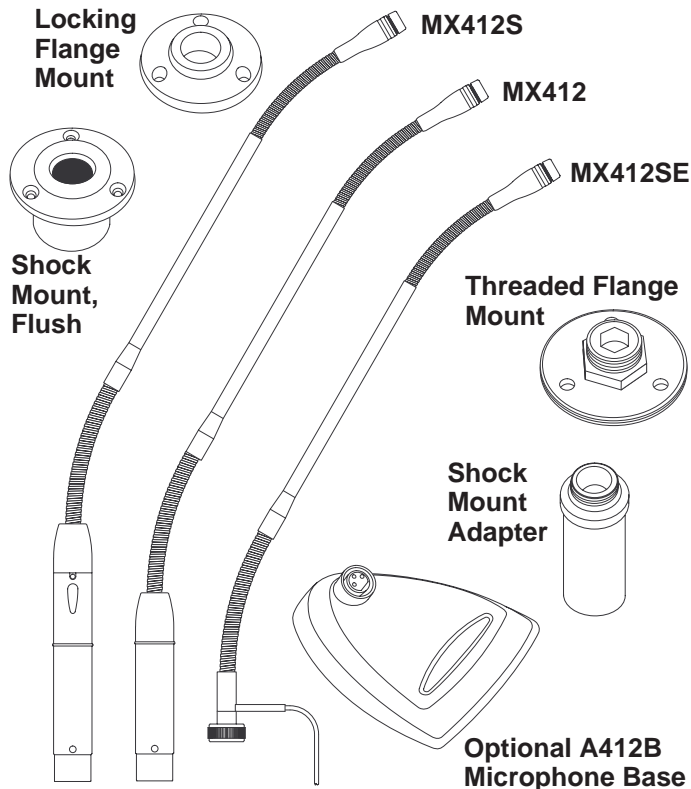


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MICROFLEX® MX400 SERIES GOOSENECK MICROPHONES

Specification Sheet



- Over 20 dB isolation from surface vibration noise (with supplied shock mount)
- Can be permanently secured to lecterns, pulpits, or conference tables

SUPPLIED ACCESSORIES

- Snap-fit foam windscreen
- Shock mount
- Locking flange mount (MX400 and MX400S models)
- Threaded flange mount (MX400SE models)
- Shock mount adapter (MX400SE models)

OPTIONAL ACCESSORIES

- Foam ball windscreen for added wind resistance (A99WS)
- Locking metal windscreen (A412MWS)
- Microphone Base (A412B)

SPECIFICATIONS

Frequency Response

50 to 17,000 Hz

Output Impedance

EIA Rated at 150 Ω (180 Ω actual)

Open Circuit Sensitivity (at 1 kHz, ref. 1 V/microbar*)

Cardioid	Supercardioid	Omnidirectional
-53.5 dB (2.11 mV)	-52.5 dB (2.37 mV)	-48.0 dB (3.98 mV)

*1 microbar = 74 dB SPL

Maximum SPL (1 kHz at 1% THD, 1 kΩ load)

Cardioid	Supercardioid	Omnidirectional
123.0 dB	122.0 dB	117.5 dB

Equivalent Output Noise (A-weighted)

Cardioid	Supercardioid	Omnidirectional
29.0 dB SPL	28.0 dB SPL	23.6 dB SPL

Signal to Noise Ratio (referenced at 94 dB SPL)

Cardioid	Supercardioid	Omnidirectional
65.0 dB	66.0 dB	70.5 dB

Dynamic Range at 1 kΩ Load

94.0 dB

Common Mode Rejection

45.0 dB minimum

Mute Switch Attenuation (switched models only)

50.0 dB minimum

Preamplifier Output Clipping Level (1% THD)

-6.0 dBV (0.5 V)

GENERAL

Shure Microflex MX400 Series microphones are miniature gooseneck-mounted electret condenser microphones designed primarily for speech and vocal pickup. They can be mounted on lecterns, pulpits, or conference tables. All models include a preamplifier and are available with interchangeable cardioid, supercardioid, or omnidirectional cartridges.

MX400SE models feature a side exit, 3 m (10 ft) cable and in-line preamplifier. They can be easily changed from side-exit to bottom-exit to conceal the cable.

FEATURES

- Wide dynamic range and frequency response for accurate sound reproduction across the audio spectrum
- Interchangeable cartridges that provide the optimal polar pattern for any application
- Balanced, transformerless output for increased immunity to noise over long cable runs

MODEL VARIATIONS

Basic Models	Model Number Suffix and Feature Variation				
	S	SE	/C	/S	/O
MX412 12" (304.5 mm) MX418 18" (456.8 mm)	Mute switch and LED	Side exit cable	Cardioid	Supercardioid	Omnidirectional

Polarity

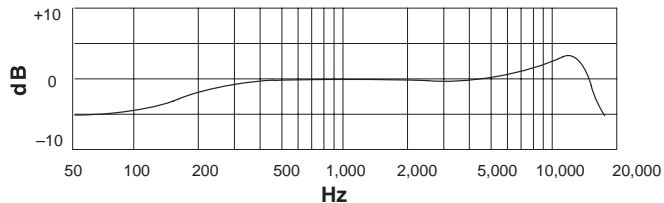
Positive sound pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output connector.

Power Requirements

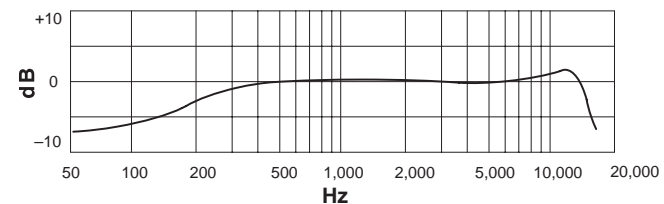
11 to 52 Vdc phantom, 2.0 mA

Certification

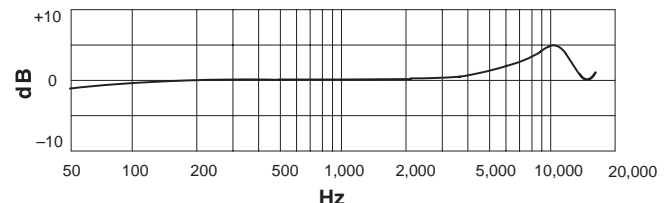
Conforms to European Union directives, eligible to bear CE marking; meets European Union EMC Immunity Requirements (EN 50 082-1, 1992).



CARDIOID

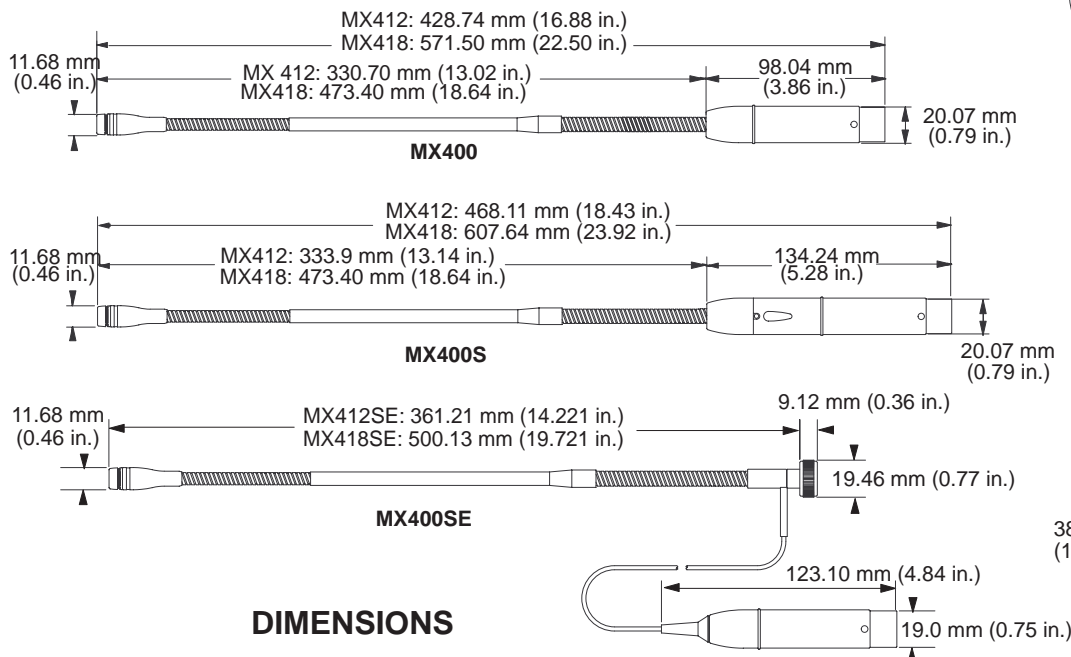


SUPERCARDIOID

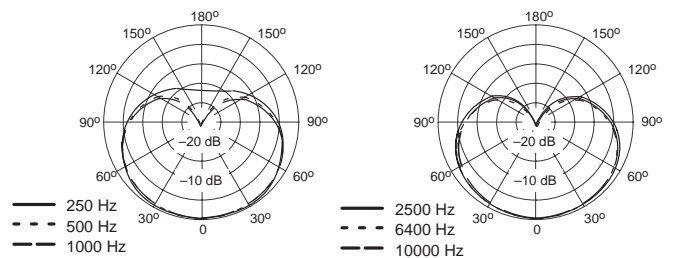


OMNIDIRECTIONAL

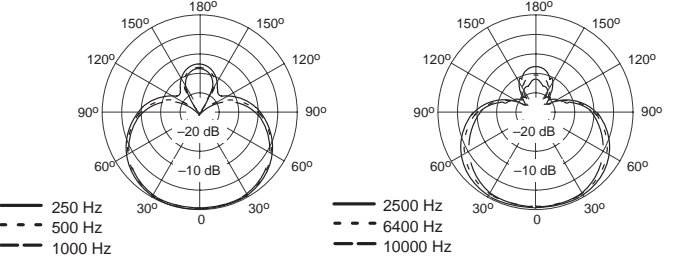
TYPICAL FREQUENCY RESPONSES



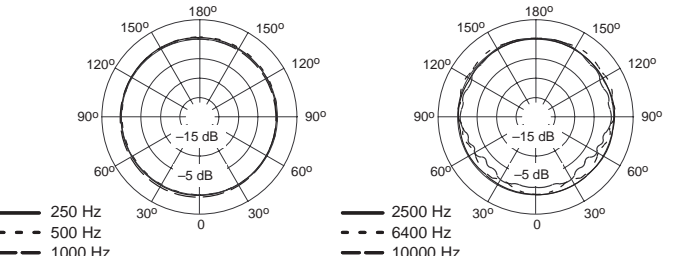
DIMENSIONS



CARDIOID

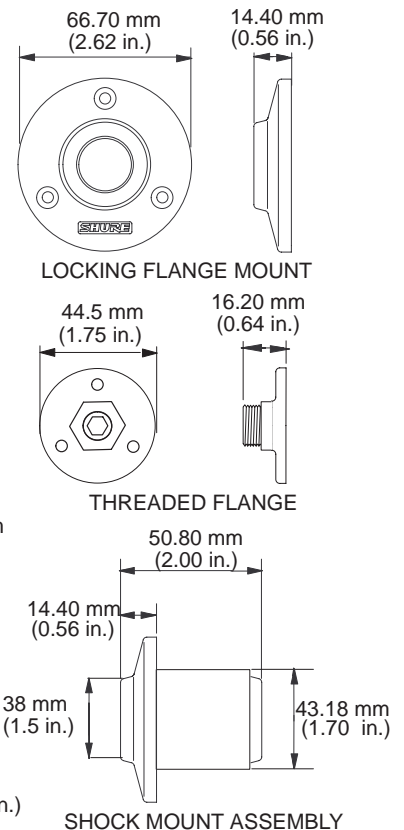


SUPERCARDIOID



OMNIDIRECTIONAL

TYPICAL POLAR PATTERNS



LOCKING FLANGE MOUNT

THREADED FLANGE

SHOCK MOUNT ASSEMBLY