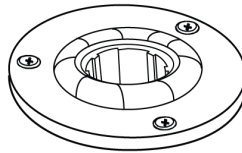
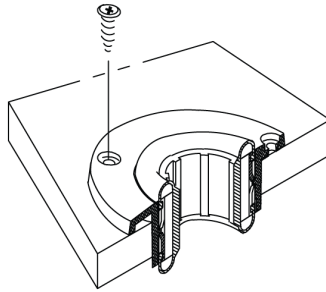




MX412,, MX418,, MX424

Gooseneck Microphones

Online user guide for Shure Microflex MX400 Series miniature gooseneck-mounted electret condenser microphones.
Version: 5.1 (2021-C)



Specifications

Type

Electret Condenser

Frequency Response

50–17000 Hz

Polar Pattern

MX412/C, MX418/C, MX424/C	Cardioid
MX412/S, MX418/S, MX424/S	Supercardioid

Output Impedance

180 Ω

Output Configuration

Active Balanced

Sensitivity

@ 1 kHz, open circuit voltage

Cardioid	-35 dBV/Pa(18 mV)
Supercardioid	-34 dBV/Pa(21 mV)

Maximum SPL

1 kHz at 1% THD, 1 kΩ 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 kΩ 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

Mute Switch

MX412S/MX418S

-50 dB minimum

Environmental Conditions

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