SHURE® PRO AUDIO

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MX412 and MX418 Microflex® Standard Gooseneck Microphones

Microflex Standard Gooseneck microphones bring a whole new meaning to the word flexible with their fully adjustable and available in cardioid, supercardioid and omnidirectional polar patterns, the interchangeable cartridges offer wide fr reproduction for a wide variety of applications, such as houses of worship, courtrooms and conference centers. Plus, th Microflex product line for enhanced convenience and consistent sound.

Features
Specifications
Accessories
User Guides

Microflex Gooseneck microphones are available in four models with a variety of heights and mounting styles to choose switch with LED indicator, a Shure Microflex exclusive. And every Microflex Gooseneck features high sensitivity and ba resistance to electromagnetic hum and RF interference, even over long cable runs.

The polar pattern of the cartridge is indicated by the model number suffix:
C = Cardioid, **S** = Supercardioid, **N** = No Cartridge

Gooseneck Microphones		
MX412/C **MX412/S** **MC412/N**	304.8 mm (12 in.) gooseneck	Attached XLR Preamp, Shock Mount, Flange Mount, Snap-Fit Foam Winds
MX418/C **MX418/S** **MX418/C**	457.2 mm (18 in.) gooseneck	Attached XLR Preamp, Shock Mount, Flange Mount, Snap-Fit Foam Winds
MX412S/C **MX412S/S** **MX412S/N**	304.8 mm (12 in.) gooseneck	Attached XLR Preamp, Shock Mount, Flange Mount, Snap-Fit Foam Winds
MX418S/C **MX418S/S** **MX418S/N**	457.2 mm (18 in.) gooseneck	Attached XLR Preamp, Shock Mount, Flange Mount, Snap-Fit Foam Winds
MX412SE/C **MX418SE/** **MX418SE/N**	304.8 mm (12 in.) gooseneck	In-Line Preamp, Shock Mount, Flange Mount, 10-ft Side-Exit (or Bottom-l
MX418SE/C **MX418SE/S** **MX418SE/N**	457.2 mm (18 in.) gooseneck	In-Line Preamp, Shock Mount, Flange Mount, 10-ft Side-Exit (or Bottom-l
Desktop Gooseneck Microphones		
MX412D/C **MX412D/S** **MX412D/N**	304.8 mm (12 in.) gooseneck	Desktop Base with 10 foot Cable, Logic Functions, Programmable Switch Windscreen
MX418D/C **MX418D/S** **MX418D/D**	457.2 mm (18 in.) gooseneck	Desktop Base with 10 foot Cable, Logic Functions, Programmable Switch Windscreen

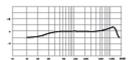- Wide dynamic range and frequency response for accurate sound reproduction across the audio spectrum
- Interchangeable cartridges provide the right polar pattern for every application
- Balanced, transformerless output for increased immunity to noise over long cable runs
- Shock mount provides over 20 dB isolation from surface vibration noise
- Locking flange mount for permanently securing microphone to lecterns, pulpits, or conference tables
- Snap-fit foam windscreen

- Programmable on/off switch and LED on/off indicator (MX412D/MX418D)
- New brighter LED improves visibility under strong ambient lighting (MX412D/MX418D)
- Logic input and output terminals for remote control or use with automatic microphone mixers (MX412D/MX418D)
- Supplied shock mount for more than 20 dB isolation from surface transmitted noise (MX412SE/MX418SE)
- Supplied threaded flange mount for permanently securing the microphone to a lectern, pulpit, or conference table (

- MX412, MX418, MX412S, MX418S Spec Sheet (pdf)
- MX412SE, MX418SE Spec Sheet (pdf)
- MX412D, MX418D Spec Sheet (pdf)

Microphone Specifications:

Frequency Response
50 to 17,000 Hz

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Output Impedance
180 ohms actual (EIA rated at 150 ohms)

Sensitivity (At 1,000 Hz, open circuit voltage*)
Cardioid: -35.0 dBV/Pa (17.8 mV)
Supercardioid: -33.5 dBV/Pa (21.1 mV)
Omnidirectional: -27.5 dBV/Pa (42.2 mV)
All values -12 dB at 0 gain; *1 Pascal = 94 dB SPL

Maximum SPL (1 kHz at 1% THD, 1 k ohm load)
Cardioid: 124.2 dB
Supercardioid: 122.7 dB
Omnidirectional: 116.7 dB
All values +6 dB at 0 gain

Equivalent Output Noise (A-weighted)
Cardioid: 28.0 dB SPL
Supercardioid: 26.5 dB SPL
Omnidirectional: 20.5 dB SPL

Signal to Noise Ratio (referenced at 94 dB SPL)
Cardioid: 66.0 dB
Supercardioid: 67.5 dB
Omnidirectional: 73.5 dB

Dynamic Range at 1 k ohm load
96.2 dB
100 dB at 0 gain

Common Mode Rejection
45.0 dB minimum

Preamplifier Output Clipping Level (1% THD)
-6.0 dBV (0.5 V)
-12 dBV at 0 gain

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

Environmental Requirements
Operating Temperature Range: -18 to 57 degrees C (0 to 135 degrees F)
Relative Humidity: 0 to 95%

Dimensions
See User Guide.

A99SMA Retrofit Adapter for SM99 Microphone
Adapter to Retrofit SM99 Microphone Series with Microflex Mounting Accessories

A99WS Microphone Windscreen
Windscreen, High Performance Ball, Foam, for Microflex Gooseneck Microphones.

RK412WS Windscreen for MX412 and MX418
Windscreen, Snap-fit, for MX412 and MX418 Microphones (Contains Four)

A412MWS Locking Metal Windscreen
Windscreen, Locking Metal, for Microflex Gooseneck Microphones.

A400SM, A400XLR, A400SMXLR and A99SMA Shock Mounts
The A400SM, A400XLR, A400SMXLR and A99SMA are accessories that allow permanent installation of a quick-release gooseneck microphones.

RK183PK and RK183PKW In-Line Preamplifier
In-Line Preamplifier for MX180 Series, MX202B, MX412, MX412SE, and MX391 Microflex Microphones.

A412B Desktop Base
Shure A412B microphone base allows gooseneck mics to be quickly mounted when permanent installation is impractic low profile. Ample room for custom circuitry. Includes cable.

R183B R183W Omnidirectional Cartridge
Omnidirectional cartridge for all Microflex MX183, MX202, MX391, MX392, MX393, MX412, MX418 and WL183 microph

R184B and R184W Supercardioid Cartridges
Supercardioid cartridge for WL183, WL184, WL185 and all Microflex MX183, MX202, MX391, MX392, MX393, MX412, N

R185B and R185W Cardioid Cartridges
Cardioid cartridge for all Microflex MX183, MX202, MX391, MX392, MX393, MX412, MX418 microphones. White or Blac

MX412 MX412S MX418 MX418S User Guide	English, French, German, Italian, Spanish	454 KB PDF
MX412D MX418D User Guide	English, French, German, Italian, Spanish	891 KB PDF
MX412SE MX418SE User Guide	English, French, German, Italian, Spanish	575 KB PDF

Quick Links

- FAQ's for MX412, MX418
- CommShield Technology White Paper
- RF and GSM Resistance