

# Unmatched Flexibility. Unbending Performance.

## MX412/MX418 Standard Gooseneck Microphones

Microflex Standard Gooseneck microphones provide the added length and flexibility needed for speakers in environments like lecterns, pulpits, and courtrooms. Available in four models with a variety of heights and mounting styles to choose from, Microflex Gooseneck microphones feature high sensitivity and balanced, transformerless output for maximum resistance to electromagnetic hum and RF interference, even over long cable runs.

- Available in 12 inch (30.5 cm) and 18 inch (45.7 cm) lengths
- Interchangeable cartridges provide the right polar pattern for every application
- Locking flange mount for permanently securing microphone to surfaces
- Snap-fit foam windscreens
- Shock mount provides over 20 dB isolation from surface vibration noise
- Models available with attached preamp, in-line preamp, or desktop base

### Available Models

**MX412 C/S/N**

12 inch (30.5 cm), Attached Preamp

**MX412S C/S/N**

12 inch (30.5 cm), Attached Preamp, Mute Switch

**MX412SE C/S/N**

12 inch (30.5 cm), In-Line Preamp,  
10 foot (3.0 m) Side-Exit Cable

**MX412D C/S/N**

12 inch (30.5 cm), Desktop Base  
with 10 foot (3.0 m) Cable

**MX418 C/S/N**

18 inch (45.7 cm), Attached Preamp

**MX418S C/S/N**

18 inch (45.7 cm), Attached Preamp, Mute Switch

**MX418SE C/S/N**

18 inch (45.7 cm), In-Line Preamp,  
10 foot (3.0 m) Side-Exit Cable

**MX418D C/S/N**

18 inch (45.7 cm), Desktop Base  
with 10 foot (3.0 m) Cable

C = Cardioid, S = Supercardioid, N = No Cartridge



MX412S

MX418D

# Technical Specifications Subject to change

	MICROFLEX Lavalier/Headset Microphones	MX200 Overhead Microphones	MX391/392/393 Boundary Microphones	MX395/396 Boundary Microphones	MX400 Gooseneck Microphones	MX690 Boundary Microphone
<b>Type</b>	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )	Condenser (electret bias )
<b>Frequency Response</b>	MX185/184/183: 50–17000 Hz MX150: 20–20000 Hz MX153: 20–20000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz	50–17000 Hz
<b>Output Impedance</b>	MX185/184/183: EIA rated at 150 Ω (170 Ω actual) MX150: 165.5 Ω MX153: N/A	180 Ω actual (EIA rated at 150 Ω)	EIA Rated at 150 Ω (180 Ω actual)	EIA Rated at 150 Ω (170 Ω actual)	EIA Rated at 150 (170 actual, MX405/410/415 ) (180 actual, MX412/418 )	EIA Rated at 150 Ω (180 Ω actual)
<b>Sensitivity (at 1 kHz, open circuit voltage)</b>	MX183: -27.5 dB V/Pa (42.2 mV) MX184: -33.5 dB V/Pa (21.1 mV) MX185: -35.0 dB V/Pa (17.8 mV) MX150: -39.0 dB V/Pa MX153: -41.0 dB V/Pa All settings -12 dB at 0 gain 1 Pascal = 94 dB SPL	Cardioid: -35.0 dB V/Pa (17.8 mV) Supercardioid: -33.5 dB V/Pa (21.1 mV) Omnidirectional: -27.5 dB V/Pa (42.2 mV) All values -12 dB at 0 gain 1 Pascal = 94 dB SPL	MX391 Cardioid: -29.6 dB V/Pa (33.5 mV) MX391 Supercardioid: -28.3 dB V/Pa (38.5 mV) MX391 Omnidirectional: -21.5 dB V/Pa (81.4 mV) MX392/393 Cardioid: -27.5 dB V/Pa (42.2 mV) MX392/393 Supercardioid: -26.5 dB V/Pa (47.3 mV) MX392/393 Omnidirectional: -22.0 dB V/Pa (79.4 mV) 1 Pascal = 94 dB SPL	MX395 Cardioid: -34 dB V/Pa (20 mV) MX395 Omnidirectional: -29 dB V/Pa (35.5 mV) MX395 Bidirectional: -35 dB V/Pa (17.8 mV) MX396: -35 dB V/Pa (18 mV) 1 Pascal = 94 dB SPL	Cardioid: -35 dB V/Pa (17.8 mV) Supercardioid: -33.5 dB V/Pa (21.1 mV) Omnidirectional: -27.5 dB V/Pa (42.2 mV ) 1 Pascal=94 dB SPL	-33 dB V/Pa (33 mV) 1 Pascal=94 dB SPL
<b>Maximum SPL (1 kHz at 1% THD, 1 k load)</b>	MX183: 132.8 dB MX184: 138.8 dB MX185: 140.3 dB MX150: 129.5 dB MX153: 107 dB All settings +6 dB at 0 gain	Cardioid: 124.2 dB Supercardioid: 122.7 dB Omnidirectional: 116.7 dB	Cardioid: 118.8 dB Supercardioid: 117.5 dB Omnidirectional: 110.7 dB	MX395 Cardioid: 120 dB MX395 Omnidirectional: 115 dB MX395 Bidirectional: 121 dB MX396: 122 dB	MX405/410/415: Cardioid with MX400SMP: 121.1 dB Cardioid with MX400DP: 122 dB Supercardioid: with MX400SMP: 119.7 dB Supercardioid: with MX400DP: 120.5 dB MX412/418: Cardioid: 124.2 dB Supercardioid: 122.7 dB Omnidirectional: 116.7 dB	118.8 dB  <i>For complete specifications on the MX690 and MX890 wireless transmitters, please visit <a href="http://www.shure.com">www.shure.com</a>.</i>
<b>Equivalent Output Noise (A-weighted)</b>	MX183: 23.7 dB SPL MX184: 29.7 dB SPL MX185: 31.2 dB SPL MX150: 31.0 dB SPL MX153: 24.9 dB SPL	Cardioid: 28.0 dB SPL Supercardioid: 26.5 dB SPL Omnidirectional: 20.5 dB SPL	Cardioid: 22.6 dB SPL Supercardioid: 21.3 dB SPL Omnidirectional: 14.5 dB SPL	MX395 Cardioid: 29 dB SPL MX395 Omnidirectional: 23 dB SPL MX395 Bidirectional: 27 dB SPL MX396: 30 dB SPL	Cardioid: 28 dB SPL Supercardioid: 26.5 dB SP L Omnidirectional: 20.5 dB SPL	22.6 dB SPL
<b>Signal-to-Noise Ratio (referenced at 94 dB SPL at 1 kHz)</b>	MX183: 70.3 dB MX184: 64.3 dB MX185: 62.8 dB MX150: 57.5 dB MX153: 60.0 dB	Cardioid: 66.0 dB Supercardioid: 67.5 dB Omnidirectional: 73.5 dB	Cardioid: 71.4 dB Supercardioid: 72.7 dB Omnidirectional: 79.5 dB	MX395 Cardioid: 65 dB MX395 Omnidirectional: 72 dB MX395 Bidirectional: 67 dB MX396: 64 dB	Cardioid: 66 dB Supercardioid: 67.5 dB Omnidirectional: 73.5 dB	71.4 dB
<b>Dynamic Range (1 k load at 1 kHz)</b>	MX185/184/183: 109.1 dB MX150: 92.5 dB MX153: 73.0 dB 100 dB at 0 gain	96.2 dB (100 dB at 0 gain)	96.2 dB	MX395 Cardioid: 91 dB MX395 Omnidirectional: 92 dB MX395 Bidirectional: 95 dB MX396: 92 dB	MX405/410/415: Cardioid with MX400SMP: 93.1 dB Cardioid with MX400DP: 94 dB Supercardioid with MX400SMP: 93.2 dB Supercardioid with MX400DP: 94 dB MX412/418: 96.2 dB 100 dB at 0 gain	96.2 dB
<b>Power Requirements</b>	11–52 Vdc phantom, 2.0 mA or 9V battery 0.8mA	11 to 52 Vdc phantom, 2.0 mA	11–52 Vdc phantom, 2.0 mA	MX395: 11–52 Vdc phantom, 2.0 mA MX395-LED: 48–52 Vdc phantom, 8.0 mA MX396: MX396/C-DUAL: 48–52 Vdc phantom, 10.0 mA MX396/C-TRI: 48–52 Vdc phantom, 12.0 mA	MX405/410/415: 48–52 Vdc phantom, 8.0 mA MX412/418: 11–52 Vdc phantom, 8.0 mA	3V (2 AA alkaline or rechargeable batteries)



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