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.

**FEATURES**
- 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 that 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

**MODEL VARIATIONS**
- **MX412**: 305 mm (12 in.) gooseneck microphone.
- **MX418**: 457 mm (18 in.) gooseneck microphone.
- **MX412S**: 305 mm (12 in) gooseneck microphone; includes a mute switch and an LED.
- **MX418S**: 457 mm (18 in) gooseneck microphone; includes a mute switch and an LED.

**SPECIFICATIONS**

- **Frequency Response** (Figure 1)
  50 to 17,000 Hz
- **Polar Pattern** (Figure 2)
- **Output Impedance** (at 1000 Hz)
  Rated at 150 Ω (180 Ω actual)
- **Open Circuit Sensitivity** (at 1 kHz, ref. 1 V/Pascal*)
  Cardioid: –35.0 dB (17.8 mV)
  Supercardioid: –33.5 dB (21.1 mV)
  Omnidirectional: –27.5 dB (42.2 mV)
  All settings –12 dB at 0 gain
  *1 Pascal = 94 dB SPL
- **Maximum SPL** (1 kHz at 1% THD, 1 kΩ load)
  Cardioid: 124.2 dB
  Supercardioid: 122.7 dB
  Omnidirectional: 116.7 dB
  All settings +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

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Certification
Eligible to bear CE Marking. Conforms to European EMC Directive 89/336/EEC. Meets applicable tests and performance criteria in European Standard EN55103 (1996) parts 1 and 2, for residential (E1) and light industrial (E2) environments.

REPLACEMENT PARTS

- Foam Ball Windscreen A99WS
- Locking Metal Windscreen A412MWS
- Portable Desktop Base A412B
- Stand Adapter A57E
- Omnidirectional Cartridge R183B
- Supercardioid Cartridge R184B
- Cardioid Cartridge R185B
- Snap-fit Foam Windscreen (4) RK412WS
- Shock Mount A400SM

TYPICAL FREQUENCY RESPONSE

Figure 1

TYPICAL POLAR PATTERNS

Figure 2
Figure 3

DIMENSIONS

MOUNTING FLANGE

SHOCK MOUNT ASSEMBLY

MX412

MX418

MX412S

MX418S

(Actual Size)