

Shure Microflex<sup>®</sup> MX400D Series microphones are miniature electret condenser gooseneck microphones with a desktop base and attached 3 m (approximate)/10 ft cable. The desktop base allows these microphones to be used in multi-purpose rooms where quick set-up is re-

· Wide dynamic range and frequency response for accurate

Interchangeable cartridges provide the right polar pattern for

Balanced, transformerless output for increased immunity to noise

New brighter LED improves visibility under strong ambient light-

Logic input and output terminals for remote control or use with

quired, or where permanent installation is impractical.

sound reproduction across the audio spectrum

Programmable on/off switch and LED on/off indicator

**OVERVIEW** 

FEATURES

ina

any application

over long cable runs

automatic microphone mixers Snap-fit foam windscreen

## MODEL MX400D SERIES MICROPHONES



## MODEL VARIATIONS

 MX412D: 304.8 mm (12 in.) desktop mini-condenser, gooseneck-mounted microphone.

## **SPECIFICATIONS**

Frequency Response (Figure 1) 50 to 17,000 Hz Polar Pattern (Figure 2) Output Impedance (at 1,000 Hz) Rated at 150  $\Omega$  (180  $\Omega$  actual) **Open Circuit Sensitivity** At 1 kHz, ref. 1 V per Pascal\* -33.5 dBV (21.1 mV) Cardioid: -32.5 dBV (23.7 mV) Supercardioid: Omnidirectional: -28.0 dBV (39.8 mV) \* 1 Pascal=94 dB SPI Maximum SPL (1kHz at 1% THD, 1 k $\Omega$  load) 123.0 dB Cardioid: Supercardioid: 122.0 dB Omnidirectional: 117.5 dB Equivalent Output Noise (A-weighted) 29.0 dB SPL Cardioid: Supercardioid: 28.0 dB SPL Omnidirectional: 70.5 dB SPL Signal to Noise Ratio (referenced at 94 dB SPL) Cardioid: 65.0 dB Supercardioid: 66.0 dB Omnidirectional: 70.5 dB Dynamic Range with 1 k $\Omega$  load 94.0 dB **Common Mode Rejection** 45.0 dB minimum **Mute Switch Attenuation** 50.0 dB minimum Preamplifier Output Clipping Level (1% THD) -6.0 dBV (0.5 V) Polarity Positive sound pressure on diaphram produces positive voltage on pin 2 relative to pin 3 of XLR output connector.

 MX418D: 457.2 mm (18 in.) desktop mini-condenser, gooseneckmounted microphone.

**Power Requirements** 11 to 52 Vdc phantom, 2.0 mA **Environmental Requirements** Operating Temperature Range: -18° to 57° C (0° to 135° F) Relative Humidity: 0 to 95% **Dimensions** (Figure 3) Weight MX412D: 0.81 kg (1.80 lbs.) net, 1.63 kg (3.62 lbs.) packaged MX418D: 0.82 kg (1.82 lbs.) net, 1.64 kg (3.64 lbs.) packaged Cable Type (figure 7) The attached custom cable contains a shielded audio pair and three unshielded conductors for logic control. Overall diameter=0.6 mm (0.165 in.) 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** Snap-Fit Foam Windscreen (4 per pkg.) **RK412WS** Foam Ball Windscreen A99WS Locking Metal Windscreen A412MWS Replacement 3 m (10 ft) XLR Cable C120 Custom Logic Cable (specify length) 15A523/1 **Omnidirectional Cartridge** R183B Supercardioid Cartridge R184B Cardioid Cartridge R185B **Base Plate Bumpers** 80A8053A

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