



INSTALLATION **MANUAL**

MULTICAST SPEAKER/
EXTREMECAST SPEAKER

1.0 INTRODUCTION

The Multicast and Extremecast product families consist of single-channel and multi-channel units. All versions are available in 5-, 3-, 2-, and 1-sided configurations.

The Multicast and Extremecast series speaker systems are designed for indoor or outdoor wet applications. These speakers produce up to 360 degrees of acoustic energy and excel in high ambient noise environments. They have an operation temperature range of -20°C to 60°C.

Specifications:

Product	dB SPL (Peak @ 1m)	dB SPL (Max @ 1m)	Usable Range (Feet @ 80dB)
Multicast	143	135	1969
Extremecast	148	140	3280

Table 1: Emitter Head and dB Rating

Input Voltage:

Multicast and Extremecast Single/Double Channel: 90 VRMS

Multi-Channel: 41 VRMS per channel

Impedance / Power Rating:

Multicast	Impedance (per channel)	Power (Watts)	Directionality
G1076-5	5	1600	360
G1076-3	8	960	230
G1076-2	12	640	185
G1076-1	24	320	120
Extremecast	Impedance (per channel)	Power (Watts)	Directionality
G1077-5	5	3200	360
G1077-3	8	1920	230
G1077-2	12	1280	185
G1077-1	24	640	120

Frequency Response: 175 Hz – 6000 Hz

Weight:

Multicast: 50 lbs.

Extremecast: 100 lbs.

Dimensions:

Multicast: 12.8" DIA X 26.2" H

Extremecast: 12.8" DIA X 45.5" H



CAUTION: EXCEEDING THE MAXIMUM RATINGS OF THE SPEAKER WILL CAUSE EXCESSIVE DISTORTION AND MAY CAUSE PERMANENT DAMAGE TO THE SPEAKER AND ITS INTERNAL COMPONENTS.

This equipment is suitable for indoor or outdoor wet location use in Class I Division 2, Groups A, B, C, D; or Non-Hazardous locations only.

Temperature Code: T3A



CAUTION: SOUND LEVEL EXCEEDS 120 dBA.

2.0 MOUNTING



WARNING: WHEN MOUNTING OUTDOORS, MAKE SURE THAT THE SUPPORT SYSTEM USED HAS THE PROPER WIND LOAD RATING AND COMPLIES WITH LOCAL STANDARDS AND CODES.

The Loud Voice series comes standard with a mounting adaptor that accepts a 2" diameter pole and has 2 – 3/8 set screws to lock the unit in place. (Figure 1)

- 1) To mount the Multicast/Extremecast , slide the mount on the emitter head over a 2" OD pipe (not included).

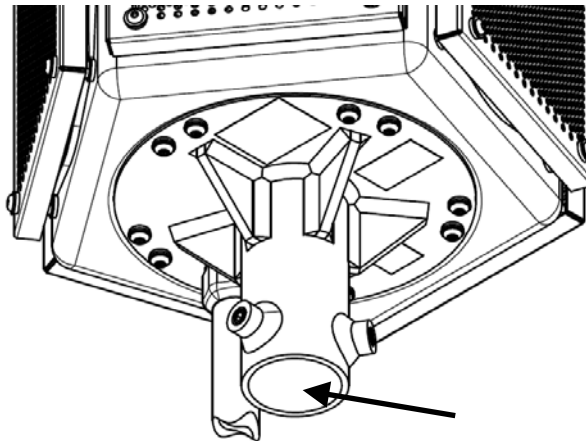


Figure 1: Location of the 2" ID mount

2) Once mounted, tighten the 2 – 3/8 set screws to 30 in-lbs.

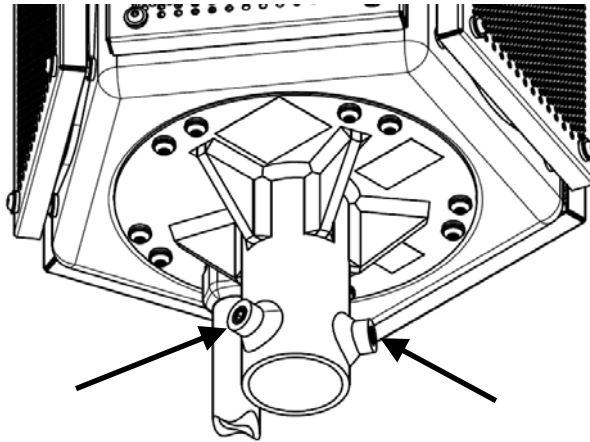


Figure 2: Location of screws to tighten to 2" pipe

3.0 FIELD WIRING



WARNING: EXPLOSION HAZARD. DO NOT DISCONNECT THE EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS.

3.1. Cable Routing

3.1.1. Single- and Multi-Channel Systems

All single- and multi-channel Multicast and Extremecast systems come with a 10-foot long 3/4" flexible conduit and 11-foot 14 AWG leads. The connection at the end of the conduit requires an installer-supplied junction box with a rating suitable for the installation environment of the box. See figure 3 for an example.

Route the conduit to a junction box approved by local electrical codes and standards.

Follow your integrator's instructions for installing into an appropriate junction system.

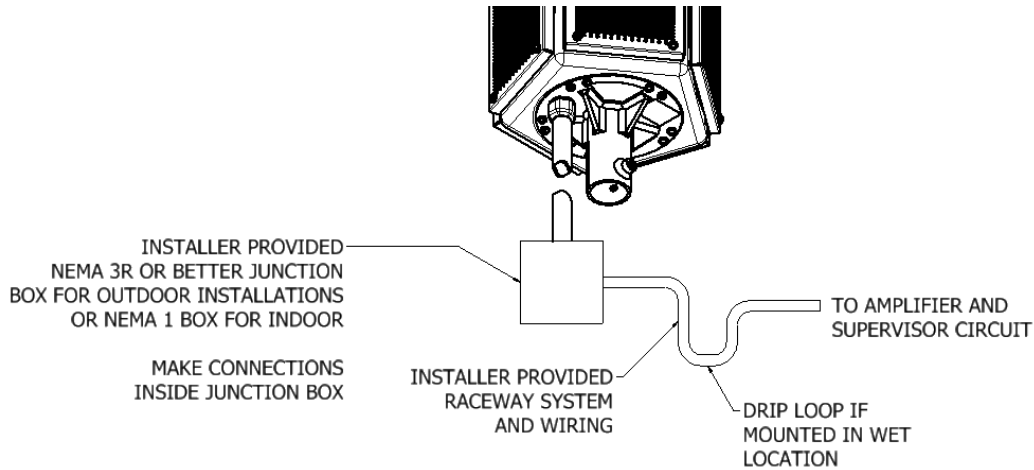


Figure 3: Example of field wiring

3.2. Wiring Diagrams

3.2.1. Single- and Multi-Channel Systems

The single-channel Multicast and double-channel Extremecast have 14 AWG leads coming out of the speaker as depicted below. The red/black and white/green pairs are used for attaching to the customer-supplied amplifier or the optional amplifier kit, and the blue/ yellow and orange/brown pairs are used for a supervision circuit.

The multi-channel Multicast and Extremecast have a red and black twisted pair of 18 AWG wires coming from each face of the speaker. The total number of pairs coming out of the speaker will depend on the number of faces populated. Each pair has an impedance of 6 ohms and a power rating of up to 300 watts. These leads may be attached to a customer-supplied amplifier or the optional amplifier kit.

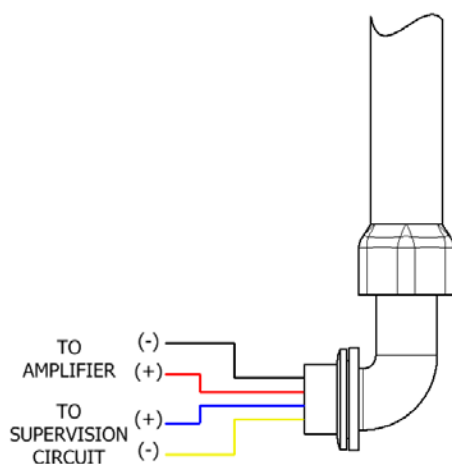


Figure 5: Multicast Single-Channel

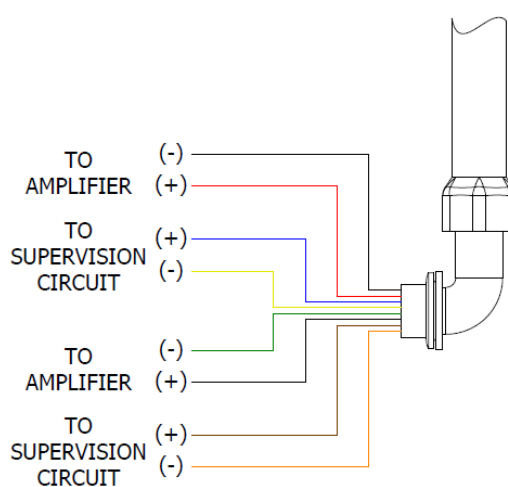


Figure 6: Extremecast Double-Channel

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