AWC62

All-Weather Compact 2-Way Coaxial Loudspeaker with 6.5” LF

Professional Series



Key Features:

- Highly weather-resistant IP56 rating.
- Consistent 110° x 110° broadband pattern control.
- Components:
  - 165 mm (6.5 in) woofer with Kevlar-reinforced cone and 38 mm (1.5 in) voice coil.
  - 25 mm (1 in) exit compression driver
- Extraordinary clarity for speech, with extended frequency response for music.
- Advanced high-slope crossover network for constant coverage and smooth, natural midrange.
- 175 Watt power handling (average continuous pink noise) with high sensitivity provides high SPL capability.
- High-power passive crossover network.
- Overload protection.
- 70 Hz – 18 kHz frequency response.
- 120 Watt 70V/100V multi-tap (built-in transformer) or direct 8Ω low-impedance.

Applications:

The AWC62 is a compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker system which is ideal for speech and music-fill in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.

The AWC62 is comprised of a high-power coaxial 165 mm (6.5 in) low frequency driver and 25 mm (1 in) high frequency compression driver. The co-axial design utilizes a unique tapered pole-piece design and transitions to the cone of the low frequency driver as a large diameter pattern control horn for the high frequencies, both eliminating high-frequency beaming which is common among this category of speaker and extending pattern control to the lowest possible frequencies. The result is a coaxial speaker with wide, extremely consistent 110° coverage on a broadband basis.

Component features include a Kevlar-reinforced low frequency cone for reliability, well-damped surround for smooth frequency response, high temperature voice coil and a reduced distortion design through saturated-gap magnet geometry.

The paintable enclosure is constructed of thick, ABS plus fiberglass and is heavily braced to maximize low-frequency performance. The corrosion-resistant zinc-rich extra-thick powder coated steel grille is backed with open cell foam and high thread-count mesh, providing excellent protection in the harshest environments. The system is rated IP-56, per IEC529 when installed at minimum 5° down-tilt.

The system is equipped with a 120W 70V/100V multi-tap transformer. Connection is made via outdoor-rated terminals in a recessed terminal cup. A protective terminal compartment cover is included, along with gland nut, which forms a water-tight seal with round-jacketed cable having outside diameter between 4 mm (0.16 in) and 9 mm (0.36 in).

A heavy-duty weather-capable zinc-rich, thick powder coated U-type mounting bracket is included.

Specifications:

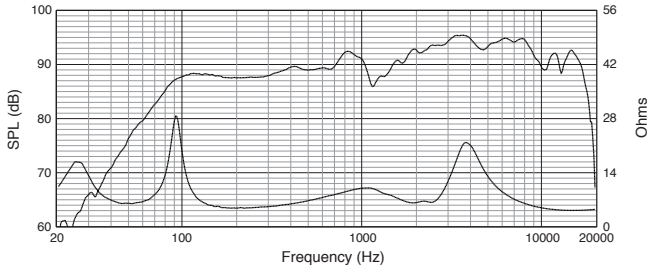
System:	
Frequency Range (-10 dB)[1]:	70 Hz – 18 kHz
Frequency Response (±3 dB)[1]:	100 Hz – 16 kHz
Coverage Pattern[2]:	110° x 110°
Directivity Factor:	7.2 (1 k – 16 kHz)
Directivity Index (DI):	7.9 dB (1 k – 16 kHz)
Long-Term System Power Rating (IEC)[3]:	175 W 2 hrs. 120 W 100 hrs
Sensitivity (2.83V @ 1m):	92 dB (Ave. 100 Hz – 18 kHz)
Maximum SPL[4]:	Direct 8Ω: 114 dB (peaks of 120 dB) 120 W Tap: 112 dB
Crossover Network:	1.8 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 3rd order low-pass to LF
Nominal Impedance:	8 ohms
Transformer Taps:	70V: 120W, 60W, 30W, 15W 100V: 120W, 60W, 30W
Transducers:	
Low Frequency Driver:	Kevlar-reinforced cone with weather treatment, 38 mm (1.5 in) voice coil.
High Frequency Driver:	25 mm (1 in) diaphragm and voice coil diameter
HF Driver Protection:	Minimum audibility SonicGuard™ HF overload protection
Physical:	
Enclosure:	ABS with Glass enclosure
Attachment:	Two M10 (fine-thread) points for included U-bracket. Reference torque 15 ft·lb (20 N·m). M6 secondary safety attachment point on back panel.
Grille:	Corrosion-resistant zinc-rich extra-thick powder coated steel grille, 3-layer assembly with foam and woven poly mesh backing.
Input Connection:	CE-compliant covered barrier strip terminals. Barrier terminals accept up to 8 mm outside 4 mm inside open-lug (#6 or #8) plus bare wire up to 2.5 mm2 (12 AWG) wire or spade lugs. Terminal compartment cover equipped with gland nut that forms water-tight seal with round-jacketed cables with outside diameters between 4.0 mm (0.16”) and 9.0 mm (0.36”).
Environmental:	IP56 per IEC529, with a minimum 5° downward aiming angle. Exceeds Mil Spec 810 for humidity, salt spray, temperature & UV, and ASTM G85 for acid-air/salt-spray (336 hrs).
Dimensions:	259 x 259 x 255 mm (10.2 x 10.2 x 10.1 in), cabinet 288 mm (11.4 in) including gland nut 309 mm (12.2 in) including bracket extending to back
Colors:	Available in gray (similar to Pantone 420C) and black (-BK)
Net Weight:	6.8 kg (15.0 lb), 7.7 kg (17.0 lb) with U-bracket
Shipping Weight:	8.8 kg (19.5 lb)
Included Accessories:	U-bracket, matches loudspeaker color (gray or black), zinc-rich extra thick powder coated, steel.

[1] Full-space (free-field)
[2] Average 1 kHz to 10 kHz
[3] IEC standard, full bandwidth pink noise with 6 dB crest factor.
[4] Calculated based on power rating and measured full-space sensitivity.

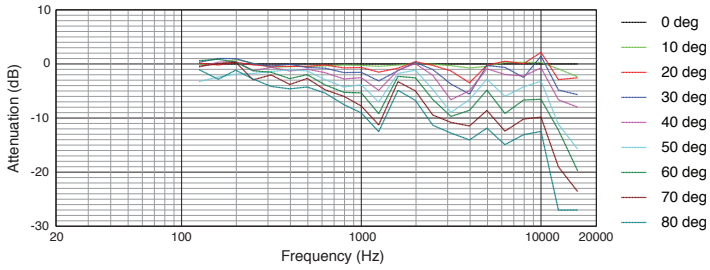
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

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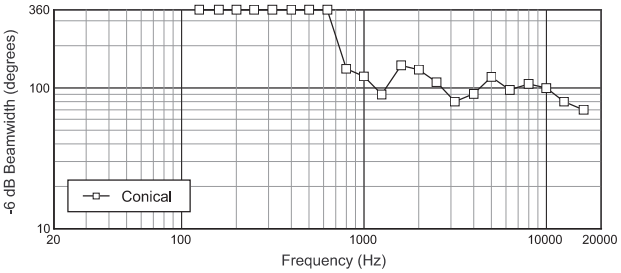
Frequency Response and Impedance



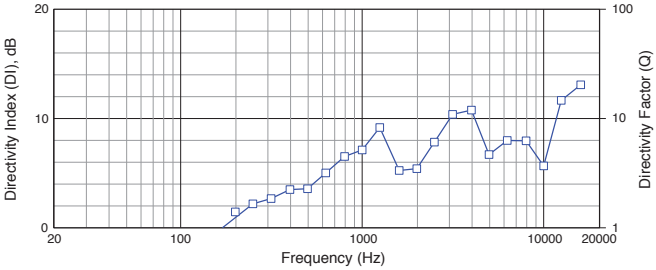
Off-Axis Frequency Response



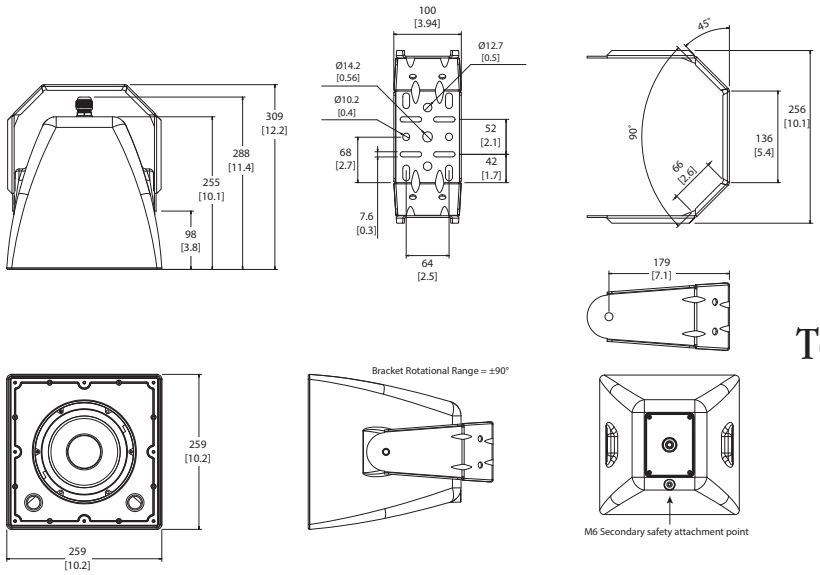
Beamwidth



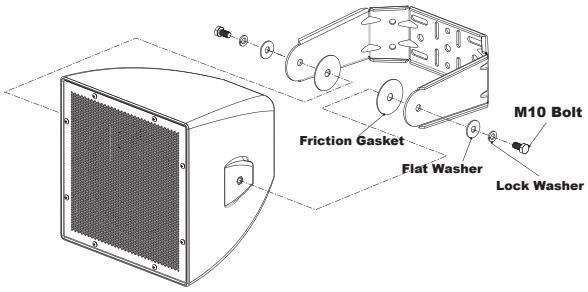
Directivity Index



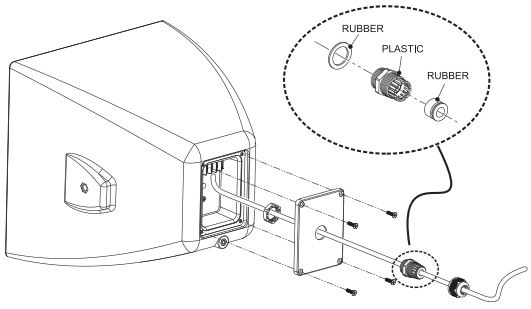
Dimensions



Attaching U-Bracket to Cabinet



Terminal Compartment



Gland nut for round jacketed cable between 4.0mm (0.16”) and 9.0mm (0.36”) O.D.

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