

# Control 440CS/T

Premium Coverage Series – 8" In-Ceiling Subwoofer with Crossover



## SPEC SHEET



Shown both with and without included white, round grille.

### KEY FEATURES ■

- High impact, direct radiating subwoofer with built-in passive crossover for two or four satellite speakers
- 200 mm (8 in) long-excursion woofer with Polymerized SBR surround
- Stylish Bezel-less grille that blends elegantly into any room design
- 32 Hz – 300 Hz Frequency Range
- 100W (400W peak) Power Handling with 80W multi-tap transformer for use with 70V/100V distributed systems

### HIGHLIGHTS ■

Part of the Control 400 collection's Premium Coverage Series, the Control 440CS/T is a high power, low distortion in-ceiling subwoofer, with a 200 mm (8 in) driver, built-in low-pass filter, and dual ports. The subwoofer is switchable for use as part of a 70V/100V distributed loudspeaker system with its 80-Watt transformer or as an 8Ω low-impedance speaker.

The system's 200 mm (8 in) woofer features a treated paper cone and high-performance magnet offering extended bass response for a warm full-bodied tone. The copper-clad aluminum voice coil wound on an aluminum former offers low distortion and high-sensitivity.

The Control 440CS/T features a built-in passive crossover network enabling it to be used as part of a subwoofer-satellite system. It provides high passed satellite outputs for use with

either two or four satellite loudspeakers (not for one or three satellite speakers), resulting in a full range, wide-bandwidth, subwoofer-satellite system.

The Control 440CS/T's 8Ω impedance allows paralleling up to 2 speakers on a 4Ω capable amplifier. It may be driven by itself on an amplifier channel, sending it either a signal that has been actively low-passed earlier in the signal chain via DSP or a full-range signal, utilizing the built-in passive low-pass filter. For distributed systems, the UL-registered transformer is designed for exceptionally low-saturation, even at high drive levels, providing top quality, low distortion distributed sound character.

The stylish bezel-less grille fits seamlessly into a variety of architectural aesthetics. The integrated backcan on the Control 440CS/T combined with the C-ring support backing plate allows for quick and easy installation of the unit. The included white grille is paintable (grille backing is removeable and re-applicable for painting), and optional accessory grilles are available in black (JBL-MTC-440BG) and in square (JBL-MTC-440SG, white only).

The Control 440CS/T is UL 1480A and UL 2043 listed.

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### SPECIFICATIONS ■

SYSTEM	
Frequency Range (-10 dB) <sup>1</sup> :	32 Hz – 300 Hz
Frequency Response (±3 dB) <sup>1</sup> :	42 Hz – 180 Hz
Power Capacity <sup>2-3</sup> :	300 W Continuous Program (2 hrs.) 150 W (600 W Peak), Continuous Pink Noise (2 hrs.) 100 W (400 W Peak) Continuous Pink Noise Power (100 hrs.)
Sensitivity:	95 dB in ceiling near corner ( $\pi/2$ loading) 92 dB in ceiling near wall ( $1\pi$ loading) 89 dB in center of ceiling ( $2\pi$ loading, half space)
Rated Maximum SPL @ 1m <sup>4</sup> :	117 dB continuous pink noise (123 dB peak, 2 hrs., $\pi/2$ loading) 111 dB continuous pink noise (117 dB peak, 2 hrs., $2\pi$ loading)
Nominal Impedance:	8 $\Omega$
Minimum Impedance:	6.8 $\Omega$ at 92 Hz
Transformer Taps:	70 V: 80 W, 40 W, 20 W & 10 W 100 V: 80 W, 40 W, 20 W
Recommended Protective High-Pass Filter Frequency:	45 Hz (24 dB/oct LR)
Transformer Insertion Loss:	0.5 dB @ 10 W; 0.5 dB @ 20 W; 0.5 dB @ 40 W; 0.6 dB @ 80 W
Maximum Input Voltage:	31.9 V RMS, 63.8 V peak (2 hrs at 8 $\Omega$ input)
Overload Protection:	PTC power limiting to protect network and transducers from occasional overload.
Safety Agency Ratings:	Suitable for use in air handling spaces per UL 2043, NFPA 90A & NFPA 70. S7232/UL Listing per UL 1480A Speakers for Commercial and Professional Use. Listed per CSA C22.2, no. 205 Signal Equipment. Transformer UL registered.
Environmental:	IP rating: IP33 per EN/IEC 60529. RoHS: Per EU RoHS Directive 2011/65/EU, as amended by EU Delegated Directive (EU) 2015/863. Operating temperature: 0° C to 45 °C.
TRANSDUCERS:	
Full-Range Driver	200 mm (8 in) treated paper cone with Polymerized Styrene- Butadiene Rubber surround, high-performance magnet, 38 mm (1.5 in) PESV voice coil on aluminum voice coil former.
ENCLOSURE	
Enclosure Material	<b>Backcan:</b> Powder-coated formed steel <b>Baffle:</b> PC/ABS, flammability rated UL 94 5VB
Grille:	Bezel-less, SPCC grille with powder-coat finish, decorative minimal-edge trim, flammability-rated backing (removable and re-applicable for painting). Stock grille is white (RAL9003), round. Black (RAL9004) round and white square available as optional accessories. Safety tether with tether stake pre-attached to grille.
Termination:	Two removable locking euro-block 2-pin connectors with screw-down terminals for bare wire. Connectors paralleled for input and loop-thru. Min. wire 20 AWG (0.5 mm <sup>2</sup> ); Max. wire 12 AWG (3.3 mm <sup>2</sup> ). Terminal cover hinged with 1 captive screws for attachment (no loose hardware).
Wire Entrance/Exit Location:	Multi-use strain relief (for wires or flex conduit) provided. Optional positioning on either top panel (for easiest installation through ceiling cutout) or side of backcan (for lowest depth profile above ceiling).
Attachment Fastening:	4 dog-ear attachment tabs for ceiling thicknesses between 1 mm and 70 mm ceiling board thickness.
Reinforcing Brackets:	Zinc-plated C-ring and 2 tile rails included for additional support above ceiling. Additional safety tab on backcan for secondary safety cable.
Dimensions (H x Dia):	351 mm (13.8 in) H x 342 mm (13.5 in) dia. 337 mm (13.3 in) from bottom of ceiling tile to top of backcan (with wire exit positioned on side of backcan).

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### SPECIFICATIONS (Cont.) ■

#### ENCLOSURE (Cont.)

Ceiling Cutout Size: 307 mm (12.1 in)

Net Weight (each): 8.72 kg (19.22 lbs)

Shipping Weight (pair-packed in carton): 25.02 kg (55.16 lbs)

Included Accessories (per speaker): Six 2-pin removable locking euro-block connectors, 1 cable strain relief, white round bezel-less grille (with pre-attached safety tether and tether clip), cutout template (labeled part of the packaging), C-ring, 2 tile rails (fits both 2 x 4 ft and 600 x 1200 mm tiles), C-ring/tile-rail screws, 1 seal cover, 6 rubber boots.

Optional Accessories:  
 JBL-MTC-440BG black (RAL9004) round grille  
 JBL-MTC-440SG white (RAL9003) square grille  
 JBL-MTC-419NC new construction bracket  
 JBL-MTC-419MR mud-ring construction bracket  
 JBL-MTC-48TRX4 tile rail for 4' x 4' ceiling tiles

Colors: Stock grille is white (RAL9003), paintable.

SKU #: JBL-C440CS/T

<sup>1</sup> Half-space (mounted in ceiling, 2 $\pi$ , half-space of free-field), with no high-pass filter.

<sup>2</sup> Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours and 2 hours continuously. Continuous Program power is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise Rating.

<sup>3</sup> In UL1480A application, when Control 440CS/T connects with four Control 442C/T satellites, the maximum rated power are 100W at 70V/100V input, 120W at 8 $\Omega$  input.

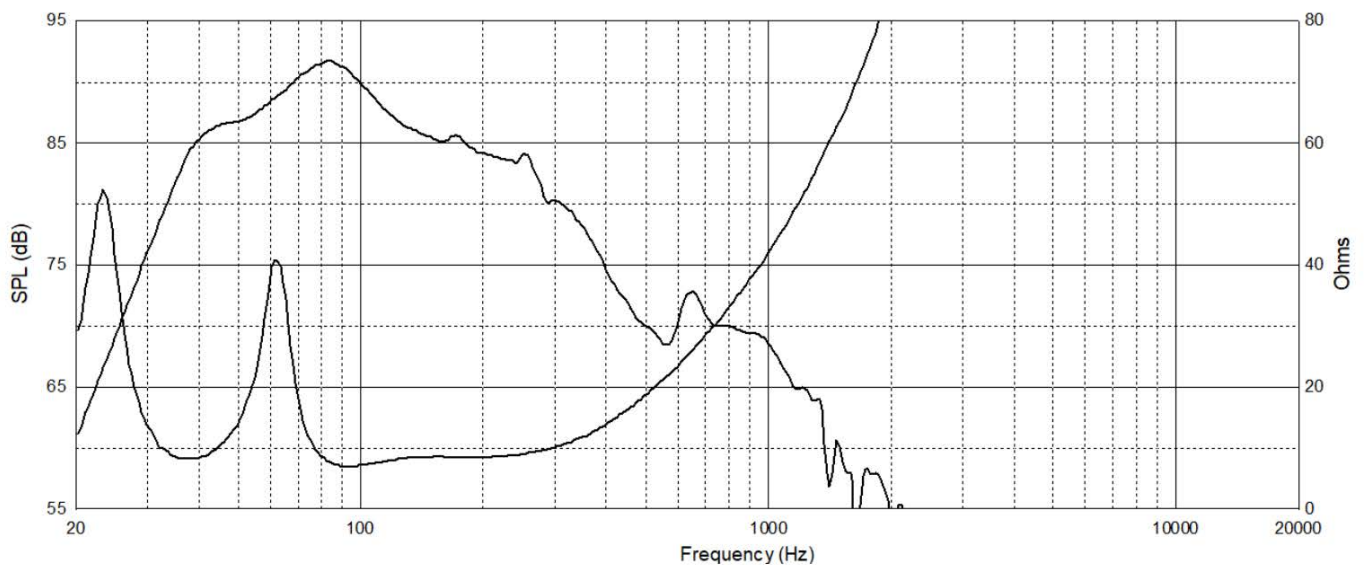
<sup>4</sup> 8 $\Omega$  mode, calculated from sensitivity and 2 hr power handling, exclusive of power compression.

For additional information, see Control Contractor 440 Series Ceiling Loudspeakers Owner's Manual, C440\_CLGSPKMAN.

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

### FREQUENCY RESPONSE & IMPEDANCE ■

Half-space, 8 $\Omega$ , on-axis (typical for coverage area)



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### DIMENSIONS ■

Dimensions in mm (in)

