



Two-Way 6.5" Coaxial Ceiling Loudspeakers

CONTROL-16C/T

SKU: 102480 UPC: 50036904575

Control 16C/T is a full-range ceiling speaker consisting of a 165 mm (6.5 inch) high tech cone driver and a 19mm soft-dome liquid cooled tweeter mounted in a vented, paintable baffle made of UV resistant UL94-V0 and UL94-5HB material, with a pre-attached blind mount backcan for quick and easy installation.

Features:

- Components:
 - 165 mm (6.5 in) high output driver with polypropylene cone and butyl rubber surround
 - 19 mm (0.75 in) soft-dome liquid-cooled tweeter
- Blind-mount backcan for quick and easy install
- Dual conduit/cable clamps
- Combined 70V/100V and low impedance direct operation
 - 50 Watts at 8 Ω nominal setting
 - 30W multi-tap at 70V/100V
- 62 Hz – 20 kHz bandwidth with wide 110° coverage
- High 91 dB sensitivity for high maximum SPL
- White or black (-BK)

Frequency Range	62 Hz – 20 kHz
Power Rating	IEC System Long-Term Ratings (low-Z direct): 100 Watts Continuous Program Power 50 Watts Continuous Pink Noise (200W peak), 100 hr
Transformer Taps	30 W, 15 W, 7.5 W @ 70V or 100V (plus 3.8 W @ 70V only)
Frequency Response (± 3 dB)	96 Hz – 15 kHz
Sensitivity	91 dB (1kHz - 16 kHz)
Coverage Angle	110° conical
Directivity Factor (Q)	7.8
Directivity Index (DI)	8.2 dB
Maximum SPL (1m)	108 dB (low-impedance, 116 dB peak) 106 dB (top 70V/100V tap)
Impedance	8 ohms (in direct/bypass setting)
Crossover Network	12 dB/oct (2nd order) low-pass to LF driver, 12 dB/oct (2nd order) high-pass to HF driver
Drivers	LF Driver: 165 mm (6.5 in) HF Driver: 19 mm (3/4 in)

Input Connectors	Removable locking 4-pin connector with screw-down terminals. Max wire size 12 AWG (2.5 mm ²)
Connector Wiring	Pin 1 = + In; Pin 2 = - In; Pin 3 = + Loop Thru; Pin 4 = - Loop Thru
Strain Reliefs	Strain relief for two cables or two flex conduits via coupled clamping mechanism
Materials	ABS baffle with UL94-V0 and UL94-5VB flame class fire rating. Zinc-plated steel backcan
Safety Agency	UL1480, UL2043, NFPA90 & NFPA70; S7232/UL Listed, Suitable for use in air handling spaces, Signaling Speaker; Transformer UL registered per UL1876; ROHS, C-tick N108, CE compliant; Baffle meets UL94-V0 and UL94-5VB flammability rating; In accordance with IEC60849/EN60849 systems
Dimensions	253 mm diameter x 225 mm depth from back of baffle (10.0 in diameter x 8.8 in depth)
Ceiling Cutout Size	Circular cutout with 223 mm (8.8 in) diameter (cardboard cutout template included)
Ceiling Thickness Range	Up to 38 mm (1.5 in) with stock dog-ears. MTC-TCD thick-ceiling dog-ears available for up to 60 mm (2.4 in) ceiling thicknesses
Safety Seismic Attachment	One point, top surface
Net Weight	3.4 kg (7.4 lbs, one speaker)
Shipping Weight	11.2 kg (24.7 lbs, pair in master carton)
Included Accessories	C-ring support backing plate, 2 tile support rails (for 2 ft or 600 mm tile spans; optional MTC-48TR extension available for larger 4 ft or 1200 mm tile spans), cutout template, paint shield, removable locking multi-pin connector, grille
Backcan	formed steel (included "blind-mount")
Baffle/Rim	ABS baffle with UL94-V0 and UL94-5VB flame class fire rating.
Plenum Usage	Yes, backcan included