

ABT-LA10B/ABT-LA20B ABT-LA30B/ABT-LA40B ABT-LA50B/ABT-LA60B ABT-LA80B/ABT-LA100B

EN 54-24

LOUDSPEAKERS COLUMNS

- ✓ *Compliance with EN 54-24*
- ✓ *Certificate of Conformity issued by CNBOP: 1438-CPR-1014*
- ✓ *Compliance with BS5839-8 standard (thermal protection)*



ABT-LA10B, ABT-LA20B, ABT-LA30B, ABT-LA40B, ABT-LA50B, ABT-LA60B, ABT-LA80B, ABT-LA100B loudspeakers are Type B loudspeakers.

They provide much further coverage while maintaining high sound level uniformity in the publicized area. ABT-LAB loudspeakers are characterized by high directivity, so the sound emitted by the loudspeaker is directed precisely to the listening area and not to undesired areas, such as the ceiling or floor. ABT-LAB are dedicated primarily for rooms with long reverberation times and unfavorable acoustic conditions for speech intelligibility.

The frequency response of ABT-LAB speakers has been designed for most accurate

reproduction of the speech signal, to provide the highest speech intelligibility required in PAVA systems.

They are also perfectly suited for music broadcasting. Robust aluminum housing that provides the degree of protection to environmental parameters IP65 and mechanical impact IK07 guarantees long, trouble-free operation in all conditions

CHARACTERISTICS

- » *Easy and quick installation*
- » *High sound quality of both speech and music*
- » *Highest level of speech intelligibility*
- » *Ideal for mounting on a ceiling, wall or pole.*
- » *Two cable inputs insulated with glands*
- » *Weatherproof housing IP65*
- » *For indoor and outdoor applications*

	ABT-LA10B	ABT-LA20B	ABT-LA30B	ABT-LA40B
Electrical				
Rated power, W	10	20	30	40
Tappings 100 V line, W	10 / 5 / 2,5	20 / 10 / 5	30 / 15 / 7,5	40 / 20 / 10
Tappings 70 V line, W	5 / 2,5 / 1,25	10 / 5 / 2,5	15 / 7,5 / 3,75	20 / 10 / 2005
Transformer impedance @ 100 V, Ω	1000 / 2000 / 4000	500 / 1000 / 2000	333 / 667 / 1333	250 / 500 / 1000
Driver impedance, Ω	8	4	10	8
Effective frequency range, Hz	160 – 20000	160 – 20000	160 – 20000	160 – 20000
Sensitivity @ 4 m, 1 W, dB	71	74	76	77
SPL @ 4 m, Rated power, dB	82	87	90	92
SPL @ 1 m, 1 W, dB	83	89	88	89
SPL @ 1 m, Rated power, dB	94	99	102	104
Horizontal dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	360 / 210 / 150 / 110	360 / 200 / 155 / 120	360 / 200 / 155 / 115	360 / 200 / 155 / 120
Vertical dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	360 / 130 / 80 / 40	145 / 80 / 35 / 20	110 / 60 / 30 / 15	85 / 40 / 20 / 10
Environmental				
Environmental type	Type B			
IP rating	IP65			
Min. / max. ambient temperature	-25°C / 55°C			
Mechanical				
Dimensions, mm	95 × 268 × 100	95 × 418 × 100	95 × 588 × 100	95 × 738 × 100
Weight, kg	2 kg	3 kg	4,2 kg	5,3 kg
Color	Light gray (RAL 7035)			
Material	Aluminium			
Impact Protection	IK07			
Mounting	Mounting bracket			
Options				
For DC line monitoring	Capacitor			
Color variants	RAL palette			
EASE Model	✓	✓	✓	✓

	ABT-LA50B	ABT-LA60B	ABT-LA80B	ABT-LA100B
Electrical				
Rated power, W	50	60	80	100
Tappings 100 V line, W	50 / 25 / 12,5	60 / 30 / 15	80 / 40 / 20	100 / 50 / 25
Tappings 70 V line, W	25 / 12,5 / 6,25	30 / 15 / 7,5	40 / 20 / 10	50 / 25 / 12,5
Transformer impedance @ 100 V, Ω	200 / 400 / 800	167 / 333 / 667	125 / 250 / 500	100 / 200 / 400
Driver impedance, Ω	6	6	6	6
Effective frequency range, Hz	160 – 20000	160 – 20000	160 – 20000	160 – 20000
Sensitivity @ 4 m, 1 W, dB	78	77	76	75
SPL @ 4 m, Rated power, dB	94	94	94	94
SPL @ 1 m, 1 W, dB	90	89	88	87
SPL @ 1 m, Rated power, dB	106	106	106	106
Horizontal dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	360 / 200 / 165 / 125	360 / 200 / 165 / 125	360 / 200 / 165 / 125	360 / 200 / 165 / 125
Vertical dispersion at 500 Hz / 1 kHz / 2 kHz / 4 kHz, [°]	70 / 35 / 15 / 10	70 / 35 / 15 / 10	70 / 35 / 15 / 10	70 / 35 / 15 / 10
Environmental				
Environmental type	Type B			
IP rating	IP65			
Min. / max. ambient temperature	-25°C / 55°C			
Mechanical				
Dimensions, mm	95 × 888 × 100	95 × 888 × 100	95 × 888 × 100	95 × 888 × 100
Weight, kg	6 kg			
Color	Light gray (RAL 7035)			
Material	Aluminium			
Impact Protection	IK07			
Mounting	Mounting bracket			
Options				
For DC line monitoring	Capacitor			
Color variants	RAL palette			
EASE Model	✓	✓	✓	✓

