

*NRR is the Noise Reduction Rating as specified by the Environmental Protection Agency (EPA) when tested to ANSI S3.19-1974 **CSA Class refers to class designations based on octave-band attenuation values listed in Table 3 of Canadian Standard Z94.2-02			Octave Band Attenuation Data (dB) All data per ANSI S3.19-1974									
	NRR*	CSA Class**		125	250	500	1000	2000	3150	4000	6300	8000
E•A•R® Earplugs - Foam												
E•A•R® Classic®	29	AL	Mean	37.4	40.9	44.8	43.8	36.3	41.9	42.6	46.1	47.3
			SD	5.7	5.0	3.3	3.6	4.9	3.0	3.1	3.5	2.7
E•A•R® Classic® Small (formerly Amigo) (tested w/ medium and smaller canals only)	29	AL	Mean	29.5	35.3	42.2	42.7	36.5	43.4	44.0	46.1	47.6
			SD	5.3	5.7	5.6	5.0	4.0	3.6	3.9	4.4	4.0
E•A•R® Classic® Plus (formerly Grande)	33	AL	Mean	37.7	43.0	47.0	43.7	38.2	44.5	45.4	49.1	48.4
			SD	4.9	4.7	3.3	3.4	3.6	2.8	3.6	4.4	4.4
E•A•R® Classic® Plus Metal Detectable	33	AL	Mean	37.7	43.0	47.0	43.7	38.2	44.5	45.4	49.1	48.4
			SD	4.9	4.7	3.3	3.4	3.6	2.8	3.6	4.4	4.4
E•A•R® Classic Soft™	31	AL	Mean	35.7	41.5	46.2	42.4	37.7	42.5	44.7	47.2	46.4
			SD	7.4	8.5	6.2	5.3	2.4	3.7	3.5	5.4	4.5
E•A•R® Classic® SuperFit® 30	30	AL	Mean	32.9	37.5	41.4	40.0	36.4	43.9	45.2	48.2	48.1
			SD	4.2	4.4	4.2	4.3	4.0	3.0	2.5	2.6	4.4
E•A•R® Classic® SuperFit® 33	33	AL	Mean	37.7	43.0	47.0	43.7	38.2	44.5	45.4	49.1	48.4
			SD	4.9	4.7	3.3	3.4	3.6	2.8	3.6	4.4	4.4
E•A•R® E-Z-Fit® (tested w/ medium and smaller canals only)	28	AL	Mean	35.6	36.9	39.0	37.5	35.1	42.3	44.9	47.7	48.7
			SD	5.8	5.0	4.6	5.9	3.0	2.6	3.3	3.4	4.5
E•A•R® TaperFit® 2 (2-size)	32	AL	Mean	36.4	39.1	41.7	40.7	38.1	44.5	45.9	48.4	48.1
			SD	3.6	2.9	3.4	3.5	2.8	2.0	2.3	3.2	3.7
E•A•Rsoft® Yellow Neons® Yellow Neon Blasts® - SuperFit® - Yellow Neons® Metal Detectable (2-size)	33	AL	Mean	38.4	40.3	43.2	41.8	38.6	45.0	45.7	49.6	47.3
			SD	4.8	4.8	5.0	4.0	2.6	3.3	3.3	4.0	3.5
E•A•Rsoft® Yellow Neons® E•A•Rsoft® Yellow Neof® Blasts® (1-size)	32	AL	Mean	36.1	37.4	39.7	38.6	38.5	44.6	45.4	47.4	48.0
			SD	3.6	4.9	4.3	3.1	2.7	3.2	4.1	3.2	3.2
E•A•Rsoft® FX™ (1-size)	33	AL	Mean	40.8	40.8	43.6	41.8	37.9	45.2	47.6	49.0	46.8
			SD	2.9	3.5	4.0	3.8	2.6	2.8	3.5	3.8	4.3
E•A•Rsoft® Grippers™	31	AL	Mean	38.9	38.7	42.9	41.9	39.2	45.6	47.4	50.9	48.2
			SD	4.6	5.4	5.7	5.3	3.4	3.8	3.8	5.3	5.2
E•A•R® Earplugs - Pod												
E•A•R® EXPRESS® Pod Plugs® E•A•R® EXPRESS® Pod Plugs® Metal Detectable	25	AL	Mean	31.6	32.1	32.2	36.9	35.7	37.0	35.7	38.7	40.5
			SD	4.3	4.6	4.8	4.0	3.3	3.3	4.2	5.1	3.4
E-A-R® Push-Ins™	28	AL	Mean	37.8	37.2	39.8	38.8	35.0	40.0	37.7	38.7	41.1
			SD	4.9	5.0	4.8	3.4	3.0	3.5	3.6	4.3	4.1
E-A-R® Push-Ins™ with Grip Rings™	30	AL	Mean	40.2	39.4	41.0	41.0	37.4	41.1	44.0	48.3	47.3
			SD	5.8	4.4	4.0	4.8	3.0	5.3	4.5	3.5	3.6
E-A-R® Push-Ins™ ComforTip™	26	AL	Mean	31.0	31.1	33.8	33.5	35.3	42.2	42.7	45.3	43.7
			SD	3.8	4.5	5.1	4.3	3.2	4.5	3.2	4.0	3.5
E-A-R® Push-Ins™ SofTouch™	31	AL	Mean	37.1	38.3	40.1	40.1	38.5	46.7	48.1	46.4	47.2
			SD	5.2	5.8	3.3	4.3	3.4	3.8	2.5	3.6	3.1
E-A-R® EZ-Ins™	22	BL	Mean	27.5	28.5	28.6	28.8	32.5	38.8	38.4	42.3	43.8
			SD	4.9	4.3	4.2	3.5	3.5	4.3	5.0	4.8	4.4

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	NRR*	CSA Class**		125	250	500	1000	2000	3150	4000	6300	8000
E•A•R® Earplugs - Other												
E•A•R® UltraFit® Metal Detectable (corded)	25	AL	Mean	28.5	30.0	32.9	33.5	34.9	40.4	41.9	42.7	44.6
			SD	4.7	4.6	4.6	4.0	3.6	5.4	5.1	3.3	4.1
E•A•R® UltraFit® (corded)	25	AL	Mean	28.5	30.0	32.9	33.5	34.9	40.4	41.9	42.7	44.6
			SD	4.7	4.6	4.6	4.0	3.6	5.4	5.1	3.3	4.1
E•A•R® UltraFit Plus® (with stem insert)	26	AL	Mean	32.3	33.2	34.1	36.0	36.4	40.8	39.7	43.2	44.1
			SD	5.1	4.3	4.9	4.6	3.4	3.9	5.5	5.4	3.3
E•A•R® UltraFit® 27	27	AL	Mean	35.2	35.3	36.2	36.9	36.2	43.4	42.7	43.7	44.3
			SD	4.7	5.5	4.7	3.9	3.8	4.9	5.3	5.3	4.8
Combat Arms™ Plug (level dependent) NOTE: No CSA Class. Fails requirement at 1000 Hz by 1.5 dB	0 (-2)	- (see note)	Mean	4.7	4.2	6.0	9.5	16.7	18.6	16.3	16.7	17.2
			SD	4.0	4.3	5.0	6.7	4.9	5.7	5.8	6.1	6.8
Combat Arms™ Plug (steady state)	22	AL	Mean	32.7	31.8	33.0	32.0	34.5	37.3	38.9	43.8	43.3
			SD	5.9	6.1	6.5	5.5	4.1	5.3	6.1	6.7	6.9
Single Sided Combat Arms™ Plug with selector (level dependent)	7	C	Mean	4.1	4.9	10.1	17.0	22.9	29.9	27.4	24.4	24.4
			SD	2.9	2.9	2.9	3.8	5.1	2.7	3.4	4.0	5.0
Single Sided Combat Arms™ Plug with selector (steady state)	21	BL	Mean	32.1	30.6	34.5	31.4	30.8	37.3	36.3	34.1	36.3
			SD	6.2	5.4	5.6	4.8	4.6	5.9	6.5	4.5	3.8
Arc Plug™ (level dependent) NOTE: No CSA Class. Fails requirement at 1000 Hz by 1.5 dB	0 (-2)	- (see note)	Mean	4.7	4.2	6.0	9.5	16.7	18.6	16.3	16.7	17.2
			SD	4.0	4.3	5.0	6.7	4.9	5.7	5.8	6.1	6.8
Arc Plug™ (steady state)	22	AL	Mean	32.7	31.8	33.0	32.0	34.5	37.3	38.9	43.8	43.3
			SD	5.9	6.1	6.5	5.5	4.1	5.3	6.1	6.7	6.9
HiFi™	12	C	Mean	14.5	15.3	16.9	18.9	22.5	23.0	19.8	22.3	24.6
			SD	3.8	2.8	2.5	3.0	3.4	3.0	2.8	2.9	2.6
customE-A-R with full block	21	BL	Mean	31.6	29.2	28.2	28.2	34.3	42.0	41.0	44.2	41.7
			SD	6.6	6.1	5.8	3.8	3.2	3.2	3.5	3.5	5.9
Electronic Earplugs												
E-A-RLink® Series 3 Eartips w/Classic® (test data per S12.6-1) Connected to Motorola NMN6050A Headset/Mic 2/ ER3-14 tips	25	AL	Mean	33.3	34.4	34.5	35.0	33.1	39.6	39.4	43.3	43.7
			SD	5.2	4.9	5.0	4.3	4.2	2.9	3.4	4.6	3.6
E-A-R® EARbud™ Blockade™ Medium	26	AL	Mean	35.2	35.9	37.5	35.4	33.8	38.6	36.4	40.0	43.0
			SD	5.6	5.3	5.1	4.2	3.5	4.2	3.9	5.9	4.8

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		NRR*	CSA Class**		125	250	500	1000	2000	3150	4000	6300	8000
Semi-Inserts													
CABOFLEX®	UC	20	BL	Mean	28.7	28.3	28.0	28.6	32.2	42.1	44.3	47.2	44.6
				SD	6.8	6.3	5.8	4.9	3.7	3.2	3.8	3.9	5.7
CABOFLEX®	BH	17	BL	Mean	25.8	24.9	25.8	27.3	31.7	40.7	42.1	43.0	41.5
				SD	7.6	7.5	6.1	5.5	4.0	4.3	3.7	4.0	6.1
E•A•R Caps®	UC	17	BL	Mean	22.7	21.1	19.4	21.1	31.1	37.7	38.1	40.1	39.2
				SD	4.4	4.1	3.3	2.5	3.1	2.4	2.5	3.8	4.2
E•A•Rflex 28®	UC	28	AL	Mean	35.3	34.5	36.4	34.0	36.4	43.2	45.5	47.9	46.3
				SD	6.3	5.2	3.9	3.5	3.2	3.6	3.1	4.4	4.4
E-A-R® Sphere™	BH	19	BL	Mean	26.3	23.8	22.0	24.6	32.9	37.2	38.7	45.0	40.6
Comfort Pods				SD	3.6	3.6	3.7	2.8	3.2	3.9	2.7	3.0	3.4
E-A-R® Sphere™	BH	28	AL	Mean	35.7	35.1	37.6	38.2	36.7	45.6	46.7	47.4	44.9
Flex 28 Tip				SD	5.5	4.9	5.7	5.2	3.8	3.9	4.3	5.4	3.7
E•A•Rflex® Foam Tips	UC	25	AL	Mean	32.7	32.8	34.2	35.2	38.2	45.5	45.5	49.0	48.2
				SD	4.2	5.5	5.7	5.7	3.3	3.4	3.4	3.7	4.1
E•A•Rflex® Foam Tips	BH	25	AL	Mean	32.5	32.9	34.1	36.3	37.8	44.7	45.1	46.2	46.3
				SD	4.6	5.1	5.6	5.9	4.5	4.0	3.4	3.2	3.6
E•A•Rflex® Foam Tips	OH	25	AL	Mean	32.6	31.2	31.8	35.0	36.9	44.1	44.6	47.3	46.7
				SD	4.6	5.2	5.4	5.4	3.4	4.3	3.9	4.2	3.7
E•A•Rflex® Premolded Tips	UC	27	AL	Mean	40.0	41.3	43.6	39.4	37.3	39.2	39.6	44.0	46.2
				SD	5.7	6.2	6.6	5.4	4.0	4.7	6.2	6.1	5.6
E•A•Rflex® Premolded Tips	BH	24	AL	Mean	39.7	40.1	43.8	40.1	37.6	39.4	39.8	44.8	47.2
				SD	8.8	8.9	8.9	7.5	6.3	5.9	6.4	5.7	3.8
E•A•Rflex® Premolded Tips	OH	24	AL	Mean	38.6	39.3	42.0	38.0	36.5	37.4	36.9	43.0	45.8
				SD	6.8	7.4	7.1	6.5	4.0	6.2	7.3	6.2	4.3
E-A-R® Muffs													
Model 1000	OH	20	B	Mean	11.7	16.2	26.5	31.6	32.5	35.0	38.1	41.8	41.8
				SD	3.3	2.7	2.7	2.6	3.0	2.8	2.5	4.7	3.8
Model 1000	BH	22	B	Mean	14.8	17.1	27.7	35.2	34.0	36.8	39.1	44.0	43.3
				SD	3.2	3.1	2.3	3.5	3.0	3.2	3.3	3.0	3.1
Model 1000	UC	22	A	Mean	14.4	18.4	28.0	34.8	34.3	36.5	38.8	43.7	43.2
				SD	3.7	3.4	2.5	2.8	3.4	2.6	2.9	2.9	3.0
Model 2000H	cap attach	21	B	Mean	13.0	17.7	25.6	30.1	32.8	35.9	33.5	36.4	37.2
				SD	3.6	2.7	2.4	2.5	3.4	2.4	2.0	3.3	3.7
Model 3000	OH	25	A	Mean	16.5	21.8	33.8	40.4	35.1	36.2	38.4	38.3	39.7
				SD	2.5	2.7	3.0	3.9	3.4	3.4	3.2	2.2	2.8
Model 3000	BH	26	AL	Mean	21.2	22.3	33.1	41.2	34.7	36.1	38.3	37.9	38.7
				SD	2.4	2.9	2.3	2.7	3.2	2.7	1.9	2.7	4.2
Model 3000	UC	26	AL	Mean	20.5	22.7	32.6	41.2	34.6	37.3	38.9	37.3	39.5
				SD	4.3	2.6	2.6	2.9	3.5	2.5	2.9	2.1	4.0
Model 4000	OH	27	A	Mean	15.5	25.1	35.0	41.0	36.5	38.4	36.9	41.2	39.8
				SD	2.7	2.9	2.5	3.2	2.8	3.1	2.4	2.4	2.4
Model 4000	BH	26	A	Mean	18.0	21.0	32.5	41.3	36.4	40.0	37.5	38.8	38.8
				SD	3.7	2.0	2.1	2.8	3.0	3.2	2.2	2.3	2.4
Model 4000	UC	26	A	Mean	16.1	22.0	32.5	40.7	36.4	40.2	37.8	37.7	38.0
				SD	3.0	2.4	1.9	2.6	2.6	3.1	2.9	4.1	3.9
Ultra 9000®	OH	16	B	Mean	12.3	17.0	24.4	22.9	23.8	27.4	25.0	23.0	25.6
				SD	2.9	2.4	2.4	2.3	2.2	3.0	3.1	1.9	2.6
Ultra 9000®	BH	16	B	Mean	14.2	15.9	24.7	23.8	23.2	29.4	26.5	23.1	25.3
				SD	2.9	3.3	2.2	2.7	1.8	2.7	2.9	2.7	3.4
Ultra 9000®	UC	17	B	Mean	13.8	18.2	24.6	23.5	24.7	27.5	26.8	24.2	25.0
				SD	2.8	2.3	2.3	3.0	2.2	3.4	2.9	3.3	2.8

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