

HS700Ex

Standard Over the Head Headset

HS700Ex

Standard Helmet Attachment Headset

KEY FEATURES

- ATEX & IECEx certificated hearing protection headset with Nexus jack connection
- Helmet attachment and headband variants
- Operates without battery, no need for charging
- Offers reliable communication in demanding noisy environments
- High noise attenuation
- Noise-cancelling dynamic boom microphone with a 2-pin connector jack
- Changeable Dynamic boom microphone with a connector jack
- Compatible with a wide range of safety helmets
- Compatible with AD700Ex PTT-Adapter and NS750Ex RSM
- IP65/67 rated
- Made in Finland

Product name	Product code
HS700Ex Standard Over the Head Headset	PMLN8628A
HS700Ex Standard Helmet Attachment Headset	PMLN8629A



TECHNICAL INFORMATION

Operating temperature	-30°C to +60°C
Recommended storage temperature	-20°C to +40°C
Recommended product lifetime	5 years (NOTE: Do not modify or alter this product)
Two-way radio cable	0,4-1,2m cable, coiled, TPU, Savox QR4

MICROPHONE

Type	Noise-cancelling dynamic microphone
Mic impedance	150Ω ± 30% at 1KHz
Sensitivity	-71dBV ±3dB @ 1Pa 1KHz MRP 6mm

SPEAKER

Type	23 mm diameter, 300 Ohms +/- 15%
Sensitivity	91 ± 3dB dBA @ 1kHz / 0.707Vrms
Bandwidth	300 - 4500 Hz

MECHANICAL

	PMLN8628A	PMLN8629A
Weight	432,7g	430,4g
Materials	Headband: Spring steel, cover material leather with soft foam filling Cups: ABS Cushions: Soft foam and PVC film	Helmet attachment: Plastic and stainless steel Cups: ABS Cushions: Soft foam and PVC film

COMPLIANCE AND APPROVALS

The product fulfills the requirements of the following Regulations and Directives:	
Regulation on Personal Protective Equipment	2016/425/EU
Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment	2011/65/EU + (EU) 2015/863
Electromagnetic compatibility (EMC) Directive	2014/30/EU
ATEX Directive	2014/34/EU

CE marking is based on the fulfilling of the requirements of the following Harmonized Standards:	
PPE	EN 352-1:2020 EN 352-3:2020 EN 352-6:2020 ANSI S3.19-1974 AS/NZS 1270:2002
IP Rating	EN 60529 IP65/67
RoHS	63000:2018
EMC	EN 301 489-1 v.2.2.3 EN 301 489-5 v.2.2.1 EN 55032 EN 55035
ATEX / IECEx	EN 60079-0:2018 / IEC 60079-0:2017 IEC 60079-11:2023 Ex ib IIC T4 Gb II 2 G Ex ib IIIC T130°C Db II 2 D Ex ib I Mb I M2 Ambient temperature range -30°C to +60°C

TESTED IN ACCORDANCE WITH EN 352-1:2020

PMLN8628A HS700Ex Standard Over the Head Headset											mass: 432,7 g			
Frequency, Hz				63	125	250	500	1000	2000	4000	8000	Headband force, N		
Mean Attenuation, dB (M)				19,8	19,9	26,8	35,6	38,5	34,2	36,7	36,1	S	M	L
Standard Deviation, dB (SD)				4,2	3,9	3,1	2,2	2,1	3,1	3,1	4,3	9,1	9,7	10,2
M - SD				15,6	16,0	23,8	33,3	36,4	31,1	33,6	31,8	Signal to noise ratio, dB		
H84, dB	33	H _m	35,2	M84, dB	32	M _m	34,2	L84, dB	24	L _m	27,5	SNR	SNR _m	SNR _s
		H _s	2,7			M _s	2,1			L _s	3,2	33	35	2,4

TESTED IN ACCORDANCE WITH EN 352-3:2020

PMLN8629A HS700Ex Standard Helmet Attachment Headset											mass: 430,4 g			
Frequency, Hz				63	125	250	500	1000	2000	4000	8000	Headband force, N		
Mean Attenuation, dB (M)				19,6	21,7	27,0	32,4	37,7	33,4	37,4	33,4	S	M	L
Standard Deviation, dB (SD)				3,7	3,8	3,8	3,5	3,5	2,6	2,3	3,8	7,7	9,3	10,0
M - SD				15,9	18,0	23,1	28,9	34,2	30,8	35,1	29,6	Signal to noise ratio, dB		
H84, dB	32	H _m	34,3	M84, dB	31	M _m	33,4	L84, dB	25	L _m	28,2	SNR	SNR _m	SNR _s
		H _s	2,3			M _s	2,2			L _s	3,1	32	34,2	2,1

These earmuffs attached to headphones protection and/or face protection devices shall be fitted to, and used only with following carriers:

- 3M G3000: Sizes S, M, L
- Uvex Pheos: Sizes M, L
- 3M Securefit X5000/X5500: Sizes S, M, L
- MSA V-Gard: Sizes S, M, L
- Kask Zenith, Zenith X, Zenith X Air, Zenith XPL: Sizes S, M, L
- Petzl Vertex: Sizes S, M, L

TESTED IN ACCORDANCE WITH ANSI S3.19-1974

PMLN8628AHS700Ex Standard Over the Head Headset												
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	Headband force, Lbs	NRR, dB	CSA Class
Mean Attenuation, dB (M)	21,0	25,9	35,4	38,7	35,6	35,0	39,3	39,5	36,5	2,1	26	AL
Standard Deviation, dB (SD)	3,7	3,5	4,3	3,0	3,2	3,3	2,4	2,9	4			
M - SD	17,3	22,4	31,1	35,7	32,4	31,7	36,9	36,6	32,5			

PMLN8629AHS700Ex Standard Helmet Attachment Headset												
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	Headband force, Lbs	NRR, dB	CSA Class
Mean Attenuation, dB (M)	23,0	26,2	31,4	37,5	34,4	34,2	36,0	35,3	33,0	2,1	24	AL
Standard Deviation, dB (SD)	3,2	2,8	3,6	3,9	3,4	4,5	4,0	4,4	5,1			
M - SD	19,8	23,4	27,8	33,6	31,0	29,7	32,0	30,9	27,9			

TESTED IN ACCORDANCE WITH EN352-6:2020 + A1:2024

Electronic audio transmission								
The A-weighted equivalent diffuse field related SPL for <u>left</u> ears as a function of input signal level:								
Input Signal Level (dBV)	-30	-25	-20	-15	-10	-5	0	5
Mean Attenuation (dBA)	52,7	57,6	62,6	67,6	72,5	77,4	82,2	87,0
Standard Deviation	1,0	1,0	1,0	1,0	1,0	0,9	0,9	1,0
The A-weighted equivalent diffuse field related SPL for <u>right</u> ears as a function of input signal level:								
Input Signal Level (dBV)	-30	-25	-20	-15	-10	-5	0	5
Mean Attenuation (dBA)	55,4	60,4	65,4	70,3	75,3	80,2	85,0	89,7
Standard Deviation	1,2	1,2	1,2	1,2	1,2	1,2	1,3	1,3
Allowable exposure duration:								
Criterion (82dBA)	dBV	-3,5		Time (h)		8		
Maximum Input Signal		5,0				1,2		