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Take your safety personally

3M, the world's leader in safety and protective equipment, is proud to have the Peltor[™] brand range as part of its product offering.

Peltor[™] communication equipment as well as hearing, head & face protection products for noisy and hazardous environments are renowned world leaders. With more than 50 years of experience, the Peltor[™] brand promises quality communication solutions that provide an optimal balance of comfort and protection.

It is our goal to ensure that we satisfy your needs through the provision of leadership, expertise, quality and service excellence.

With our global technology, manufacturing and knowledge network we do more than simply develop products that help your workforce to operate in safety and comfort. The advanced engineering and technology inherent with the Peltor[™] brand fits with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.





A headset for high demands

When the ground is 32,000 feet below you, you can't afford to have anything go wrong. Reliable communication, convenient design, low weight and maximum comfort are essential requirements of a headset in a noisy aviation environment, in the air and on the ground.

A challenge

Peltor has the knowledge, experience and enthusiasm to meet this challenge, having been developing headsets for military, civil, sport and helicopter aviation since the early 1950's.

First class performance

Our headsets have no protruding parts which can snag. All contacts are encased and reinforced at bending points. The low profile of the headband ensures that the headset sits firmly on the head and minimizes the risk of bumping against obstacles.

The parallel connector means that each earphone works separately, so that if one fails, the other works as usual.

Our microphone arm features a securely encased cord. The small, sturdy design with four positions gives even more effective communication with its increased flexibility.

These small, carefully designed and extensively tested features are just some examples why Peltor headsets makes a difference. We've known the importance of this for more than 50 years!

3M[™] Peltor[™] Aviation 8000 series

Peltor Aviation 8000 series has a compact design. No protruding parts that can snag on obstacles and affect safety. The microphone cord is securely encased in the arm.

Remarkable comfort

The broad liquid and foam filled, breathing ear cushions, gives minimal pressure distributed over the entire contact surface. The stainless sprung steel headbands maintain their resiliency and provide an even distribution of pressure over time and in different environments. Plenty of space for the ears and a very low weight!



The Aviation 8000 series has easily accessible controls with inset volume and balance controls in one. This solution lets you compensate for different noise situations and individual variations, such as poor hearing in one ear.

Reliable communication

Effective noise attenuation through the entire speech frequency area combined with efficient noise cancelling speech microphones, ensure reliable communication even in very high noise environments. A special filter eliminates wind and breath noises.



8003 MT52H79F-04 VI

Aviation 8003

Peltor Aviation 8003 headset has an ambient-noise cancelling microphone, specially designed for aviation intercom systems. The microphone amplifier can be adjusted for output signals in the range of 300-600 mV. The frequency range is adjusted for good speech recognition. The earphones have a broad frequency range for good sound reproduction. Straight polyurethane cord, moulded connectors and a stereo/mono switch in the branching box. The earphones are connected with a 1/4" stereo connector and the microphone has a PJ068 connector.

Headset

Earphone

Impedance

Sensitivity

Frequency response

Type

Weight: Microphone connector: Earphone connector: Cord length:

370g Type PJ068 1/4" stereo 1,35m

HTR-330

165ohm (2x 330ohm in parallell)

200 - 3000Hz +-6dB 80dBA @ 0.5Vrms / 1kHz Microphone and amplifier

Type Frequency response Supply voltage 8 - 30V Connection impedance

MT52 dynamic differential microphone 200 - 4000 Hz +-6dB

е	470 – 2000 ohm
0	470 2000 0000

Sensitivity ov	er supply	voltage and	connection impedance
Supply voltage	470 ohm	1000ohm	2000ohm
8V	130mV	100mV	50mV
12V	130mV	130mV	130mV
16V	130mV	130mV	130mV
30V	130mV	130mV	130mV
	t delivery ga		dBSPL, 150ohm AC load
Gain set at min:		typ. 100mV	
Gain set at max:		typ. 220mV	

Current consumption Noise suppression

tvp. 3mA @ 12V / 470 ohm 15 dB (average from all angles at 500Hz)



8006 MT51H79F-01 VI

Aviation 8006

Peltor Aviation 8006 headset has an ambient-noise cancelling electret differential microphone, specially designed for aviation intercom systems. The frequency range is adjusted for good speech recognition. The earphones have a broad frequency range for good sound reproduction. Straight polyurethane cord, moulded connectors and a stereo/ mono switch in the branching box. The earphones are connected with a 1/4" stereo connector and the microphone has a PJ068 connector.

Headset

Weight: Microphone connector: Earphone connector: Cord length:

Earphone

Type Impedance

Frequency response Sensitivity

360g Type PJ068 1/4" stereo 1.35m

HTR-330 165ohm (2x 330ohm in parallell) 100-5000Hz+-6dB 77dBA @ 0.5Vrms / 1kHz

Microphone and amplifier

Туре Frequency response

(12V / 470ohm, 150ohm AC load) Supply voltage 8 – 16V

Connection impedance 470 – 1000 ohm

Sensitivity over supply voltage and connection impedance

200 - 4000 Hz + -6dB

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Supply voltage	470 ohm	1000ohm
8V	400mV	250mV
12V	650mV	500mV
16V	900mV	650mV

0mV 0mV

Typical values. 114dBSPL, 150ohm AC load

Current consumption Noise suppression

tvp. 13mA @ 12V / 470 ohm 15dB (average from all angles at 500Hz)

MT51 electret differential microphone



Microphone MT51, MT52

- Small, lightweight and sturdy.
- Microphone arm twists 180 degrees, allowing both right- and left-mounting.
- 4-way adjustment with resistance settings practically unlimited possibilities for individual settings.
- Quick Positioning from speech to stand-by without changing the basic settings.





8103 MT52H79F-03

Aviation 8103

Peltor Aviation 8103 helicopter headset has an ambient-noise cancelling differential microphone, specially designed for aviation intercom systems. The microphone amplifier is designed for intercom systems with 5Ω impedance. The frequency range is adjusted for good speech recognition. The earphones have a more limited frequency range, to give the best possible speech recognition in the ambient noise of a helicopter. Spiral polyurethane cable with moulded NATO-standard connector.

Headset Weight:

Weight: 370g Connectors: Nexus TP-120 "European NATO" Cord length: 0.4-1m

Microphone

Type Output impedance Frequency response Output signal Noise suppression

Earphone

Sensitivity

Frequency response

Type Impedance MT52 dynamic differential microphone 550hm 200 – 5000 Hz +-6dB typ. 0,5mV @ 114dBSPL 15dB (average from all angles at 500Hz)

HTSU-32 16ohm (2x 32ohm in parallell) 200 – 8000Hz +-6dB 92dBA @ 0.5Vrms / 1kHz



8106 MT51H79F-02

Aviation 8106

Peltor Aviation 8106 helicopter headset has an ambient-noise cancelling electret differential microphone. The earphones have a more limited frequency range, to give the best possible speech recognition in the ambient noise of a helicopter. Spiral polyurethane cable with moulded NATO-standard connector.

Headset Weight: Connectors:

Cord length:

360g Nexus TP-120 "European NATO" 0,4-1m

Microphone and amplifier

Type Frequency response Supply voltage Connection impedance	MT51 electret differential microphone 200 – 4000 Hz +-6dB 8 – 16V 470 – 1000 ohm
Connection Impedance	470 – 1000 onm

Sensitivity over supply voltage and connection impedance

JIISILIVILY OVO	a Supply vo	nage and connection imp
pply voltage	470 ohm	1000ohm
	0001/	0001/

3	00mV	2	00m
5	50mV	4	00m
7	50mV	5	50m

Typical values. 114dBSPL, 150ohm AC load

Current consumption Noise suppression

nhana

Earphone

Sup 8V 12V

16V

Type Impedance Frequency response Sensitivity HTS-230 115ohm (2x 230ohm in parallell) 200 – 5000Hz +-6dB 82dBA @ 0 5Vrms / 1kHz

typ. 11mA @ 12V / 470 ohm

15dB (average from all angles at 500Hz)

MT51H79F-** MT52H79F-**			Attenuationes acc. to EN352-1:1993					
Frequency (Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	15.4	26.6	29.3	40	34.3	33	36.5	
Standard Deviation (dB)	3.1	2.2	1.6	1.5	2.4	2.3	1.9	
Assumed Protection (dB)	12.3	24.4	27.7	38.5	31.9	30.7	34.6	

SNR=31dB H=33dB M=30dB L=21dB



3M[™] Peltor[™] Aviation 8000 series

Twin Cup Helicopter Headset, "Hummingbird"

Twin Cup Hummingbird Headset is designed for connection to low impedance helicopter intercom systems. It has leather covered headband and individually sprung headband wires of stainless steel to provide best comfort and durability. Cable is coiled polyurethane with "European NATO" connected moulded plug.



MT72H540F-91

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.9	24.4	32.7	35.3	33.3	41	39.4
Standard Deviation (dB)	2.3	1.8	1.7	2.6	2.7	3	3.2
Assumed Protection (dB)	16.6	22.6	31	32.7	30.6	38.1	36.2

SNR=33 H=33 M=31 L=24

Highly attenuating headset for use in extremely noisy environments

- Noise cancelling microphone for clear and reliable communication
- All cables exit at the top of the cups to prevent snagging and allow for easy connection to an overhead intercom.
- The coiled cable has extra length to enable it to be connected to a console mounted intercom.
- Designed for low impedance intercom system of a helicopter

Earphone

Type Impedance Frequency response Sensitivity

HTS-32 16ohm (2x 32ohm in parallell) 200-4000Hz+-6dB 97dBA @ 0.5Vrms / 1kHz

MT72 dynamic differential microphone

Microphone

Type Output impedance Frequency response Output signal Noise suppression

440g Microphone Connector:

550hm 200 – 5000 Hz +-6dB typ. 0,5mV @ 114dBSPL 15dB (average from all angles at 500Hz)

Headset Weight:

Cord length:

Nexus TP-120 "European Nato" 0,5 – 1,2 m



Aviation – accessories

A variety of accessories will help you enhance your Peltor product and enable you to benefit from its broad usage range in a daily use.

Accessories, spare parts and additional equipment are all developed and manufactured by the same people who designed our headsets. This guarantees adaptability and durable function.

Accessories and spare parts

- Model: Hygiene kit Wind protection Mike Protector Headsetbag
- 8003, 8103 HY79 M40/1 HYM1000 FP9007

8006, 8106 HY79 M995 HYM1000 FP9007

Twin Cup HY13 M40/1 HYM1000 FP9007

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