Technical Data Specification

3M™ PELTOR™ WS™ ALERT™ XP Headset

Hearing protection with Bluetooth® Technology

Product Description

The Bluetooth® headset with noise-cancelling microphone connects to one Bluetooth enabled device, such as a mobile phone or a two-way radio. The headset helps to protect you against hazardous noise, but also makes it easy to make phone calls with both hands free in noisy environments.

Key Features

- High attenuating hearing protector in two models: stand-alone headband or safety helmet attachment (SNR 30 dB)
- Bluetooth® Technology for connection to one external device for hands-free talk and streaming
- Noise cancelling boom microphone for clear speech transmission in noisy environments
- Level-dependent function for ambient listening to help improve your situational awareness
- Auto-pairing to quickly pair and connect to your mobile device
- Built-in FM-Radio with radio volume limited to 82dB
- Voice guided menu system
- Digital station search with ability to store up to 4 favorite stations
- Auto power off: The headset will turn off after 4 hrs of non-use to save battery
- Low-battery warning at low battery level
- To help reduce the corrosion caused by sweat, the electronics are located in the outer part of the cup
- Rechargeable option with NiMH batteries
- Replaceable cushions and foam liners

Applications

The 3M™ PELTOR™ WS™ ALERT™ XP Headset offers Bluetooth® wireless communication in continuous or intermittent noisy environments. Essential when users need to be connected to their mobile phone throughout the day (e.g. handymen in construction industries, private contractors operating their own equipment, farmers, maintenance workers in industrial applications etc.); everywhere hands-free communication and hearing protection could be of benefit.

Approvals

Hereby, 3M Svenska AB declares that the radiobroadcast receiver and Bluetooth® radio communication is in compliance with Directive 2014/53/EU and other appropriate directives to fulfill the requirements for the CE marking. 3M Svenska AB also declares that the PPE type headset is in compliance with Regulation (EU) 2016/425.

The applicable legislation can be determined by reviewing the Declaration of Conformity (DoC) at www.3M.com/peltor/doc. The DoC will also show if some other type-approvals are also applicable. When retrieving your DoC, please locate your part number. The part number of your earmuffs can be found at the bottom of one cup. These PPE products are audited annually by SGS Fimko Ltd., Takomotie 8, FI-00380 Helsinki, Finland, Notified Body No. 0598, and type approved by PZT GmbH, Notified Body No. 1974, Bismarckstrasse 264 B, 26389, Wilhelmshaven, Germany.

The product has been tested and approved in accordance with EN 352-1:2002 / EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002, EN 352-8:2008 or EN 352-1:2020, EN 352-3:2020, EN 352-4:2020, EN 352-6:2020, EN 352-8:2020. The applicable version can be found in the DoC.

A copy of the DoC and additional information required in the Directives can also be obtained by contacting 3M in the country of purchase.



MRX21A2WS6



MRX21P3E2WS6



Bluetooth® technology for connection to one external device for hands-free talk and streaming



Noise cancelling boom microphone for clear speech transmission in noisy environments



Level-dependent function for ambient listening



Built-in FM-radio

Headset Models and Accessories

Article number	Description	3M ID	SAP ID
MRX21A2WS6	3M™ PELTOR™ WS™ ALERT™ XP Headset, headband, black	UU009153337	7100146915
MRX21P3E2WS6	3M™ PELTOR™ WS™ ALERT™ XP Headset, helmet attachment, black	UU009161132	7100147224
MRX21A2WS6-ACK	3M™ PELTOR™ WS™ ALERT™ XP Headset, incl. ACK (FR09,FR08, LR6NM), headband, black	UU009161124	7100147222
MRX21P3E2WS6-ACK	3M™ PELTOR™ WS™ ALERT™ XP Headset, incl. ACK (FR09,FR08, LR6NM), helmet attachment, black	UU009160928	7100147261
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Article number	Description	3M ID	SAPID
HY82	3M™ PELTOR™ HY82 Hygiene kit (cushion and foamliner)	UU008567388	7100122439
HY80	3M™ PELTOR™ HY80 Replacement Gel Cushions	70071524139	7000127268
FR08	3M™ PELTOR™ FR08 Power supply with USB connector	XH001680194	7000108521
FRO9	3M™ PELTOR™ FR09 Battery charger with USB connector	XH001680616	7100075611
LR6NM	3M™ PELTOR™ LR6NM NiMH rechargeable AA batteries, 2 ea	XH001659693	7100064688
M995/2	3M™ PELTOR™ M995 Wind shield for speech microphone, 2 ea	XH001679154	7010044372
HY100A	3M™ PELTOR™ HY100A Clean Hygiene Pad, 100pcs	XH001651351	7100064410
HYM1000	3M™ PELTOR™ HYM1000 Microphone protection, 4.5 meters	XH001651328	7100064281

Technical data specifications

Materials:	Headband MRX21A2WS6 Headband: PVC, PA Headband wire: stainless steel Two-point fastener: POM Cushion: PVC foil and PUR foam Foam liner: PUR foam Cup: ABS Level-dependent microphone for ambient listening: PUR foam
	Wind shield for speech microphone: ABS, PA Antenna: PE, ABS, TPE Wind Shield: foam Charger jack: stainless steel Helmet attachment/Hardhat MRX21P3E2WS6 Cup supporting arm: stainless steel
Battery type:	2xAA Alkaline batteries (or optional NiMH)
Operating time:	Approximately 58 hours (FM radio and level-dependent) Approximately 78 hours (Bluetooth® streaming and level-dependent)
Weight (batteries incl.):	MRX21A2WS6 (headband with foam cushion HY82): 411 g MRX21P3E2WS6 (helmet attachment with foam cushion HY82): 431 g MRX21A2WS6 (headband with gel cushion HY80): 473 g MRX21P3E2WS6 (helmet attachment with gel cushion HY80): 495 g
Bluetooth® Technology:	Bluetooth version: 4.2
	Bluetooth headset profile (HSP): 1.2
	Bluetooth hands-free profile (HFP): 1.6
	Bluetooth Advanced Audio Distribution Profile (A2DP): 1.3
	Audio/Video Remote Control Profile (AVRCP): 1.6
	Bluetooth Range: Up to 10m (class 2)
Speakers:	27 mm diameter, 100 Ohm
Boom microphone type:	Noise cancelling electret microphone
Operating temperature:	-20°C to +55°C (battery dependent)
Storage temperature:	-20°C to +55°C
Shelf life:	5 years excl. batteries

Use limitation: Never modify or alter this product

MRX21A2WS6

EN352-1:2002

Headband with foam cushion HY82

Frequency (Hz) f	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation M_f (dB)	13.8	19.3	30.4	34.5	37.7	39.5	36.2	
Standard deviation s _f (dB)	2.7	2.4	2.7	3.6	2.3	2.7	4.1	30
Assumed Protection Value $APV_f(dB)$	11.1	16.9	27.7	30.9	35.4	36.8	32.1	



H=35 dB M=27 dB

MRX21P3E2WS6

EN352-3:2002

Helmet Attachment with foam cushion HY82

Frequency (Hz) f	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation M_f (dB)	14.2	19.7	29.6	33.4	36.3	39.5	34.6	
Standard deviation s _f (dB)	3.9	1.9	2.5	1.8	2.5	2.7	4.9	30
Assumed Protection Value $APV_f(dB)$	10.3	17.8	27.1	31.6	33.8	36.8	29.7	



H=34 dB M=27 dB L=18 dB

MRX21A2WS6

EN352-1:2002

Headband with gel cushion HY80

Frequency (Hz) f	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation M _f (dB)	12.6	19.6	30.4	32.4	40.1	40.5	38.0	
Standard deviation s _f (dB)	2.9	2.0	3.0	2.8	3.3	3.3	2.8	30
Assumed Protection Value APV _f (dB)	9.7	17.6	27.4	29.6	36.8	37.2	35.2	



H=36 dB M=27 dB

MRX21P3E2WS6

EN352-3:2002

Helmet Attachment with gel cushion HY80

Frequency (Hz) f	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation M _f (dB)	11.8	18.6	28.4	33.2	37.9	39.1	36.9	
Standard deviation s_f (dB)	2.3	2.0	2.0	2.7	2.4	3.2	4.1	29
Assumed Protection Value APV_f (dB)	9.5	16.6	26.4	30.5	35.5	35.9	32.8	



H=35 dB M=26 dB L=17 dB

3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence off applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

In the box (MRX21*2WS6)

1x Headset

2 x AA batteries

1x User Instruction

In the box (MRX21*2WS6-ACK)

1x Headset

2 x NiMH rechargeable AA batteries (LR6NM)

1x Battery charger with USB connector (FR09)

1x Power supply with USB connector (FR08)

1x User Instruction



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For more information on maintenance, please see the User Instruction.
For complete warranty condition, contact your dealer or local 3M office.

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