



3M™ PELTOR™ TWIN CUP™ Headset

Product Description



MT72H540A-50



MT72H540P3E-50

The 3M™ PELTOR™ TWIN CUP™ headset has high-attenuating shells with optimised acoustic design and excellent space for the ears. Noise compensated microphone for clear and reliable communication in noisy environments. Bright blue color to indicate Ex/IS certified design. Ex/IS approved for IECEx/ATEX/UKEX and CSA.

Key Features

- Bright blue color indicates Ex/IS certified design
- Twin-cup technique
- Dynamic noise compensated microphone
- Certified to IECEx/ATEX/UKEXa and CSA standards
- Newly designed headband

Applications

The 3M™ PELTOR™ Twin Cup Headset can enhance communication in noisy environments. Suitable for workplaces that require Ex/S certified designed approved equipment, where the workers need to be connected to their 2-way handheld or fixed systems throughout the day to help facilitate frequent contacts with co-workers.




Hearing protection with external audio input for listen only

Standards and Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate directives or regulations to fulfill the requirements for the CE and/or UKCA marking. The full text of the EU declaration of conformity is available at the following internet address: www.3M.com/PELTOR/DOC. A copy of the declaration of conformity and additional information required in the directives or regulations can also be obtained by contacting 3M in the country of purchase.

Ex/IS Approvals

IECEX/ATEX/UKEX	Ex/IS CSA
 II 2G Ex ib IIC T4 Gb Ta: -20 °C - +50 °C Nemko 09ATEX1119X IECEX NEM09.0005X DNV 22 UKEX 43871X	Class I, Division 1/Division 2, Groups A, B, C & D T4** Class I, Zone 1, AEx ib IIC T4 Gb Ex ib IIC T4 Gb -20 °C ≤Ta: ≤+50 °C CSA 23CA80166993X

Models

Article Number	Description	3M ID
MT72H540A-50	3M™ PELTOR™ TWIN CUP™ Headset, Headband, Ex approved, Blue	7100271680
MT72H540P3E-50	3M™ PELTOR™ TWIN CUP™ Headset, Hard hat attachment, Ex approved, Blue	7000108283

Accessories

Article Number	Description	3M ID
HY13	3M™ PELTOR™ Hygiene kit	7000108013
HY100A	3M™ PELTOR™ Clean Hygiene Pad, 100 pair	7100064410

Technical Data Specifications

Item	Weight
Headband	426 g
Helmet Attachment	440 g

Material	Value
Attachment Wire	Stainless Steel
Two-Point Fastener	Acetal
Inline Foam	PVC foil and polyether foam
Attenuation Cushion	Polyether foam
Cup	ABS plastic

Material	Value
Microphone	Noise cancelling dynamic microphone Sensitivity: -60dB+-3dB (0dB=1V/Pa @ 1 kHz) Impedance: 230 Ω +20% -10%
Speakers	41 mm diameter, 230 Ohm +/- 15% SPL 85dB +/-3dB, 200-2000 Hz
Down Lead	0,5–1,4m cable, coiled, PU, with connector type TP-120

Storage	Value
Operating Temperature	-20° C - +50°
Recommended Storage Condition	-20° C - +40° C
Recommended Product Lifetime	5 years

User limitation: Never modify or alter this product

Approved Safety Helmets

Helmet Model	Size
3M™ SecureFit™ Safety Helmet X5000	M/L
3M™ SecureFit™ Safety Helmet X5500	M/L
3M™ G3000 Basic Set	M/L
MSA V-Guard	L

In the Box

- 1 x 3M™ PELTOR™ TWIN CUP™ Headset
- 1 x User instruction

Laboratory Attenuation

STANDARD EN 352-1:2020

Headband earmuffs with foam cushions MT72H540A-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	18.8	25	34.9	35.7	32.4	41.4	34.9	34.5	32.7	26.3	33.9
SD (dB)	2.2	2.5	3.4	2.8	2.4	3.3	3.2	2.2	1.8	2.2	1.6
APV = MV - SD (dB)	16.6	22.5	31.5	32.9	30	38.1	31.7	32	31	24	32

STANDARD EN 352-3:2020

Carrier attachment earmuffs with foam cushions MT72H540P3E-50

Frequency (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MV (dB)	18.2	24.7	36.9	35.7	32.3	41.3	35.4	34.5	32.7	25.8	33.9
SD (dB)	2.4	2.2	2.9	2.2	3.3	3.3	2.9	2.9	1.7	1.9	1.9
APV = MV - SD (dB)	15.8	22.5	34.0	33.5	29.0	38.0	32.5	32	31	24	32

STANDARDS ANSI S3.19-1974 (US) AND CSA 22.2 (CANADA) ANSI S3.19-1974

Headband earmuffs with foam cushions MT72H540A-50

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6350	8000	NRR	CSA Class
Mean attenuation (dB) (Mf)	19.1	26.7	36.7	37.5	33.7	37.3	39.4	37.7	39.2	28	A
Standard deviation (dB) (sf)	2.4	2.3	2.2	2.6	2.3	2.9	3.0	2.7	2.8		

Carrier attachment earmuffs with foam cushions MT72H540P3E-50

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6350	8000	NRR	CSA Class
Mean attenuation (dB) (Mf)	16.7	22.0	31.7	36.3	33.7	34.1	34.0	33.5	35.6	25	B
Standard deviation (dB) (sf)	2.7	2.3	2.6	2.3	2.1	2.1	2.9	3.2	3.7		

MT72H540A-50 AS/NZS 1270:2002

Test Frequency (Hz)	125	250	500	1000	2000	4000	8000	SLC 80	CLASS	Clamping Force (N)
Mean attenuation (dB)	19.4	23.4	33.2	35	33.1	37.1	34.1	31 dB	5	11.3
Standard deviation (dB)	4.9	3.7	3.0	3.1	2.8	3.1	4.4			
Mean minus SD	14.2	19.	30.2	31.9	30.3	34	29.7			

MT72H540P3E-50 AS/NZS 1270:2002

Test Frequency (Hz)	125	250	500	1000	2000	4000	8000	SLC 80	CLASS	Clamping Force (N)
Mean attenuation (dB)	23.1	24.9	34.5	34.5	31.3	39.6	37	30 dB	5	10.8
Standard deviation (dB)	3.5	5.9	5.2	4.3	3.0	3.9	3.7			
Mean minus SD	19.6	19.0	29.3	30.2	28.3	35.7	33.3			

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 and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

Warranty and Important Notice

Warranty

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For complete warranty condition, contact your dealer or local 3M office.

Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. 3M acknowledges the respective Trademark Owners' rights in this literature.



3M Personal Safety Division
3M Svenska AB, Box 2341
SE-331 02 Värnamo
Sweden
Internet: www.3M.com/PELTOR
Phone: +46 (0)370-65 65 00

PSD products are occupational
use only.

Please recycle. Printed in Sweden.
© 3M 2023. All rights reserved.
3M and PELTOR are trademarks of 3M Company
and its affiliates.

DS23001 rev.a