3M Science. Applied to Life.™

3M[™] PELTOR[™] Optime[™] Earmuffs

Technical datasheet

Product description

The 3M[™] PELTOR[™] Optime[™] Earmuffs are available in headband, neckband, foldable or helmet mounted version. These products are designed to provide moderate to very high levels of attenuation that meets the needs of an extensive range of industrial applications.

Providing attenuation value ranging from SNR 26dB to SNR 35dB they can meet the needs of a wide range of noisy environments.

The helmet mounted version is designed to fit a wide range of industrial safety helmets (see below for further details).

Key features

- Low profile light-weight design (lightest version 165g)
- Sealing rings are available as combination fluid and foam in most models or soft foam cushion only – see model type for more information
- Stainless steel headband design helps maintain constant pressure during wear time
- Large space inside cup helps reduce moisture and heat build-up
- Soft wide cushions help reduce pressure around the ears and improves comfort and wearability
- Replaceable cushions and inserts are available separately to extend the life of your earmuffs
- Helmet mounted version fits directly to many industrial safety helmets without the need of any adapter
- SM[™] PELTOR[™] Optime[™] Earmuffs feature a double cup design that helps improve attenuation at lower frequencies
- Some models are available in a high visibility colour for enhanced visibility in at risk environments





3M[™] PELTOR[™] Optime[™] I Earmuffs (Headband)



3M[™] PELTOR[™] Optime[™] II Earmuffs (Helmet Mounted)



3M[™] PELTOR[™] Optime[™] III Earmuffs (Neckband)

Helmet mounted version approved combination:

BMAirstream HT-70, HT-705, HT-705AEMLMLLBMAirstream HT-701, HT-707, HT-705AEMLMLMLSMG500 HeadgearESMLSMLSMLBMVariafio M-06 and M-107AFMLMLMLBMVariafio M-306 and M-307AFMLMLMLSMSpeedglas" Welding Helmet 9100 MPAFMLSMLSMLSMG2000KSMLSMLSMLSMLBMG22001ESMLSMLSMLSMLSMG2203ESMLSMLSMLSMLBMG2204ESMLSMLSMLSMLAubourixBrennusFSMLSMLSMLAubourixFondelecFSMLSMLSMLAubourixIrisEMLMLMLAubourixIrisESMLSMLSMLCenturion100/ACCO Type 2HSMLSMLSMLCenturion105/AFCO PlusHSMLSMLSMLCenturionConceptESMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance MDMSMLSMLSMLGrollsBalance MDASMLSMLSMLGrollsBalance MDESMLSMLSMLGrollsBalance MDASMLSMLSML<	Helmet brand	Model number	P3 Adapter	3M [™] PELTOR [™] Optime [™] I Earmuffs	3M [™] PELTOR [™] Optime [™] II Earmuffs	3M [™] PELTOR Optime [™] III Earmuffs
BMAirstream HT-701, HT-702, HT-705AEMLMLLMMAirstream HT-707AEMLMLMLSMLSMLBMGSOD HeadghaerESMLSMLSMLSMLBMVersaflo M-106 and M-107AFMLMLMLMLBMVersaflo M-306 and M-307AFMLMLMLMLBMSpeedjaerWelling Holmst 9100 MPAFMLMLSMLSMLBMG2000KSMLSMLSMLSMLSMLBMG200CSMLSMLSMLSMLBMG3001ESMLSMLSMLSMLBMG3001ESMLSMLSMLSMLAlubouisikBrenusFSMLSMLSMLAlubousikBrenusEMLMLMLAlubousikIris 2EMLSMLSMLAlubousikIris 2ESMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion102/ARCO PlusHSMLSMLSMLCenturion102/ARCO PlusESMLSMLSMLCenturionConceptESMLSMLSMLCenturionConceptESMLSMLSMLGrollsBalance ADMSMLSMLSMLSMSSuper V-Gardi IIESMLSMLSML <tr<< td=""><td>3M</td><td>Airstream AH1, AH4</td><td>AE</td><td>ML</td><td>ML</td><td>L</td></tr<<>	3M	Airstream AH1, AH4	AE	ML	ML	L
BMAirsteam HT-707AEMLMLMLSMGSO0 HeadgearESMLSMLSMLBMVerasifo M-306 and M-307AFMLMLMLBMSpecifylas" Welding Heimet 9100 MPAFMLMLMLSMG200KSMLSMLSMLSMLBMG200ESMLSMLSMLSMLBMG220 (Basic Combination)ESMLSMLSMLBMG3501ESMLSMLSMLSMLAuboukFSMLSMLSMLSMLAuboukFondelecFSMLSMLSMLAuboukFondelecFSMLSMLSMLAuboukFondelecFSMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion154/ARCO PlusHSMLSMLSMLCenturion154/ARCO PlusFSMLSMLSMLGrollsBalance ACESMLSMLSMLGrollsBalance ACESMLSMLSMLSPVOLTEESMLSMLSMLSPVOLTEESMLSMLSMLSPVOLTEESMLSMLSMLSPVOLTEESMLSMLSMLSPVOLTEESMLSMLSMLSPVOLTEESMLSMLSML </td <td>3M</td> <td>Airstream AH7</td> <td>AE</td> <td>ML</td> <td>ML</td> <td>L</td>	3M	Airstream AH7	AE	ML	ML	L
BMG500 HeadgearESMLSMLSMLMLBMVersafto M-105 and M-107AFMLMLMLBMSpeedglas" Welding Heimet B100 MPAFMLMLSMLSMG2000KSMLSMLSMLSMLBMG22 (Baic Combination)ESMLSMLSMLBMG3001ESMLSMLSMLBMG3001ESMLSMLSMLBMG3001ESMLSMLSMLBMG3001ESMLSMLSMLAboueixBrenusFSMLSMLSMLAboueixIrisEMLMLMLAboueixIrisEMLSMLSMLAboueixIris2EMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturion100/ARCO Type 2HSMLSMLSMLCanturionConceptESMLSMLSMLGrolsBalance HDMSMLSMLSMLGrolsBalance HDMSMLSMLSMLSPKKR/MK/RE <td< td=""><td>ЗМ</td><td>Airstream HT-701, HT-702, HT-705</td><td>AE</td><td>ML</td><td>ML</td><td>L</td></td<>	ЗМ	Airstream HT-701, HT-702, HT-705	AE	ML	ML	L
BMVersafio M-106 and M-307AFMLMLMLBMSpeedjaar Welding Helmet 9100 MPAFMLMLMLBMSpeedjaar Welding Helmet 9100 MPAFMLSMLSMLBMG2000KSMLSMLSMLSMLBMG2000ESMLSMLSMLSMLBMG3501ESMLSMLSMLSMLBMH700ESMLSMLSMLSMLAubousixBranusFSMLSMLSMLAubousixIrisEMLMLMLAubousixIrisESMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion105/ARCO PlusHSMLSMLSMLCenturion105/ARCO PlusHSMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance ACESMLSMLSMLJSPKKGP/MK/RESMLSMLSMLJSPKKGR/MK/RESMLSMLSMLJSPKGB/AMCRESMLSMLSMLSMASMSSMLSMLSMLSMLSMASMSSMLSMLSMLSMLSMSSMLSMLSMLSMLSMLSMISMLSMLSMLSMLSMLSMISMLSMLSMLSML	3M	Airstream HT-707	AE	ML	ML	L
BMVersafio M-306 and M-307AFMLMLMLBMSpeedglas' Welding Helmet 9100 MPAFMLMLMLBMG200KSMLSMLSMLBMG22 (Baic Combination)ESMLSMLSMLBMG3000ESMLSMLSMLBMG3000ESMLSMLSMLBMG3501ESMLSMLSMLAubousixBronusFSMLSMLSMLAubousixInfaEMLMLMLAubousixInfaEMLMLMLAubousixInfaEMLMLMLAubousixInfaEMLMLMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturionConceptESMLSMLSMLCenturionConceptESMLSMLSMLSrollBalance ACE <td>3M</td> <td>G500 Headgear</td> <td>E</td> <td>SML</td> <td>SML</td> <td>SML</td>	3M	G500 Headgear	E	SML	SML	SML
BMSpeedglas" Welding Helmet 9100 MPAFMLMLMLBMG2000KSMLSMLSMLBMG200 Combination)ESMLSMLSMLBMG3001ESMLSMLSMLBMG3001ESMLSMLSMLBMG3001ESMLSMLSMLAbboueixBrenusFSMLSMLSMLAuboueixFondelecFSMLSMLSMLAuboueixIrisEMLMLMLAuboueix (Seybol)KARAESMLSMLSMLAuboueix (Seybol)IS2/ARCO PlusHSMLSMLSMLCenturion100/ARCO PlusESMLSMLSMLCenturion154/ARCO PlusESMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance ACEMLMLSMLGrollsBalance ACEMLMLSMLJSPKK8/MK/RELMLSMLJSPMK8MKRESMLSMLSMLJSPMK8IP2002ESMLSMLSMLJSPMK8SM2SMLSMLSMLGrollsBalance ACESMLSMLSMLJSPMK8MKRSMLSMLSMLSMLSMLSMLSMLSMLSMLSMS<	3M	Versaflo M-106 and M-107	AF	ML	ML	ML
SMG2000KSMLSMLSML3MG22 (Baic Combination)ESMLSMLSML3MG3000ESMLSMLSML3MG3001ESMLSMLSML3MG3001ESMLSMLSML3MG301EMLSMLLAubouixBrennusFSMLSMLSMLAuboueixFondelecFSMLSMLMLAuboueixIrisEMLMLMLAuboueixIrisEMLSMLSMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion115/ARCO PlusHSMLSMLSMLCenturion115/ARCO PlusHSMLSMLSMLCenturionConceptESMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLJSPVARP/MK7RESMLSMLSMLJSPMK8/MK7RESMLSMLSMLLASLP2002ESMLSMLSMLLASLP2002ESMLSMLSMLLASLP2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 300"ESMLSMLSMLRomerProfexporE <td< td=""><td>3M</td><td>Versaflo M-306 and M-307</td><td>AF</td><td>ML</td><td>ML</td><td>ML</td></td<>	3M	Versaflo M-306 and M-307	AF	ML	ML	ML
BMG22 (Basic Combination)ESMLSMLSMLBMG3000ESMLSMLSMLBMG3001ESMLSMLSMLBMH700ESMLSMLSMLAuboueixFondelecFSMLSMLSMLAuboueixIris 2EMLMLMLAuboueixIris 2EMLMLMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1150/ARCO PlusHSMLSMLSMLCenturion1150/ARCO PlusHSMLSMLSMLCenturion1150/ARCOAMLMLMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLJSPMKGF/MK7RESMLSMLSMLJSPMKBELMLLLASLP2002ESMLSMLSMLASASPU-Gard IIESMLSMLSMLMASASper-Gard IIESMLSMLSMLASASper-Gard IIESMLSMLSMLASASper-Gard IIESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomer	3M	Speedglas [™] Welding Helmet 9100 MP	AF	ML	ML	ML
BMG3000ESMLSMLSMLBMG3501ESMLSMLSMLBMH700EMLSMLSMLAuboueixBronnusFSMLSMLSMLAuboueixIrisEMLMLMLAuboueixIrisEMLMLMLAuboueixIrisEMLSMLSMLCenturion100/ARC0 Type 2HSMLSMLSMLCenturion115/ARC0 PlusHSMLSMLSMLCenturion115/ARC0ESMLSMLSMLCenturionConceptEMLMLMLCenturionGalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLJSPEVOLITEESMLSMLSMLJSPMKBR/MK7RESMLSMLSMLLASL2005ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLProtector/Scott <t< td=""><td>3M</td><td>G2000</td><td>К</td><td>SML</td><td>SML</td><td>SML</td></t<>	3M	G2000	К	SML	SML	SML
BMG3501ESMLSMLSMLLAuboueixH700EMLSMLSMLSMLAuboueixFronusFSMLSMLSMLAuboueixIrisEMLMLMLAuboueixIris 2EMLMLMLCenturion100/ARC0 Type 2HSMLSMLSMLCenturion1125/ARC0 PlusHSMLSMLSMLCenturionConceptEMLMLMLCenturionConceptEMLMLMLGrollsBalance ACEMLMLMLGrollsBalance ACEMLMLSMLGrollsRobustESMLSMLSMLSMLJSPKK6R/MK7RESMLSMLSMLSMLJSPMK6R/MK7RESMLSMLSMLSMLLASLP2002ESMLSMLSMLSMLASASuper-V-Gard IIESMLSMLSMLMSAV-GardESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLRomerMarcu Top 2 Altas NomazBSMLSMLSMLRomerMarcu Top 2 Altas NomazBSMLSMLSMLRomerMarcu Top 2 Altas NomazBSMLSMLSMLRomerMarcu Top 2 Altas NomazBSMLSMLSML <t< td=""><td>3M</td><td>G22 (Basic Combination)</td><td>E</td><td>SML</td><td>SML</td><td>SML</td></t<>	3M	G22 (Basic Combination)	E	SML	SML	SML
BMH-700EMLSMLLAuboueixBrennusFSMLSMLSMLAuboueixFondelecFSMLMLMLAuboueixIrisEMLMLMLAuboueixIris 2EMLMLMLCenturion100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1540/ARCOAMLMLMLCenturionConceptESMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLLJSPKKR/MK/RESMLSMLLJSPMK8/MK/RARESMLSMLSMLLASL/2006ESMLSMLSMLASASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLRomerBrave 2 NomazBSMLSMLSMLRomerProf ExpoESMLSMLSMLRomerProf Expo Atlas NomazBSMLSMLSMLRomerProf Expo Atlas NomazBSMLSMLSMLSchuberthBERS //YPCBOESMLSML	3M	G3000	E	SML	SML	SML
AuboueixFennusFSMLSMLSMLAuboueixFondelecFSMLSMLSMLAuboueixIrisEMLMLMLAuboueixIris 2ESMLSMLSMLAuboueix /SeybolKARAESMLSMLMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1540/ARCOESMLSMLMLCenturionConceptESMLMLMLCenturionBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDESMLSMLSMLGrollsBalance HDEMLMLLJSPMK6R/MK/RESMLSMLSMLJSPMK6R/MK/RESMLSMLSMLLSSL2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLMSASuper V-Gard IIE,GSMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLRomerMarcus Top 2 Atlas NomazBSMLSMLSMLRomerMarcus Top 2 Atlas NomazBSMLSMLSMLRomerProf KonmazB </td <td>3M</td> <td>G3501</td> <td>E</td> <td>SML</td> <td>SML</td> <td>SML</td>	3M	G3501	E	SML	SML	SML
AuboueixFondelecFSMLSMLSMLAuboueixIrisEMLMLMLAuboueix/ SeybolKARAESMLSMLMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1540/ARCOAMLMLMLCenturionConceptESMLSMLSMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLSPEVCLITEESMLSMLSMLJSPMK6R/MK7RESMLSMLSMLJSPMK8ELMLLLASLP2002ESMLSMLSMLLASLP2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerBravo 2 NomazBSML <td< td=""><td>3M</td><td>H-700</td><td>E</td><td>ML</td><td>SML</td><td>L</td></td<>	3M	H-700	E	ML	SML	L
AuboueixIrisEMLMLMLAuboueix /SeybolKARAEMLMLMLCanturion1100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1540/ARCOAMLMLMLCenturionConceptESMLSMLSMLCenturionConceptEMLMLMLCenturionBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsRobustEMLMLLJSPKK6R/MK7RESMLSMLLJSPMK8ELMLSMLSMLLASLP2002ESMLSMLSMLLASLP2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLMSASyle GOOESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerBravo 2 NomazBSMLSMLSMLRomerProtector/ScottStyle 300mazBSMLSMLRomerProfi MomazBSMLSMLSMLRomerProfi MomazBSMLSMLSMLRomerProfi MomazBSMLSMLSML <td>Auboueix</td> <td>Brennus</td> <td>F</td> <td>SML</td> <td>SML</td> <td>SML</td>	Auboueix	Brennus	F	SML	SML	SML
AuboueixIris 2EMLMLMLAuboueix / SeybolKARAESMLSMLMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1126/ARCOAMLMLMLCenturionConceptESMLSMLSMLCenturionConceptEMLMLMLCenturionBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDESMLSMLSMLJSPEVOLITEEMLMLLJSPMK6R/MK7RESMLSMLSMLJSPMK6R/MK7RESMLSMLSMLLASLP2002ESMLSMLSMLLASLP2006ESMLSMLSMLMSAV-GardESMLSMLSMLPetzlVertexESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerBravo 2 NomazBSMLSMLSMLRomerProfi ExpoESMLSMLSMLR	Auboueix	Fondelec	F	SML	SML	SML
Auboueix /SeybolKARAESMLSMLMLCenturion1100/ARCO Type 2HSMLSMLSMLCenturion1125/ARCO PlusHSMLSMLSMLCenturion1540/ARCOAMLMLMLCenturion1540/ARCOESMLSMLSMLCenturionConceptEMLMLMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsRobustEMLMLLGrollsRobustEMLMLLJSPWGR/MK7RESMLSMLSMLJSPMK6R/MK7RESMLSMLSMLLASLP2002ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLProtector/ScottStyle 600ESMLSMLSMLRomerProf ExpoASMLSMLSMLSMLRomerProf ExpoASMLSMLSMLRomerProf Expo Atlas NomazBSMLSMLSMLRomerProf Expo Atlas NomazBSMLSMLSMLRomerProf Expo AtlasBSMLSMLSMLSchuberthBERS // SCH <t< td=""><td>Auboueix</td><td>Iris</td><td>E</td><td>ML</td><td>ML</td><td>ML</td></t<>	Auboueix	Iris	E	ML	ML	ML
Centurion 1100/ARCO Type 2 H SML SML SML Centurion 1125/ARCO Plus H SML SML SML Centurion 1540/ARCO A ML ML ML Centurion Concept E SML SML SML Grolls Balance E ML ML ML Grolls Balance AC E ML ML ML Grolls Balance AC E ML ML SML Grolls Balance AC E ML ML L Grolls Balance AC E SML SML SML JSP Robust E SML SML SML JSP MK8 E L ML L Kemira Top Cap A SML SML SML LAS LP2002 E SML SML SML MSA V-Gard II E <td< td=""><td>Auboueix</td><td>Iris 2</td><td>E</td><td>ML</td><td>ML</td><td>ML</td></td<>	Auboueix	Iris 2	E	ML	ML	ML
Centurion 1100/ARCO Type 2 H SML SML SML Centurion 1125/ARCO Plus H SML SML SML Centurion 1540/ARCO A ML ML ML Centurion Concept E SML SML SML Grolls Balance E ML ML ML Grolls Balance AC E ML ML ML Grolls Balance AC E ML ML SML Grolls Balance AC E ML ML SML Grolls Balance AC E SML SML SML SMC TP E SML SML SML SMS Robust E SML SML SML JSP MK6R/MK7R E SML SML SML LAS LP2002 E SML SML SML LAS LP2006 E <	Auboueix /Seybol	KARA			SML	
Centurion1125/ARCO PlusHSMLSMLSMLMLCenturion1540/ARCOAMLMLMLCenturionConceptESMLSMLSMGrollsBalance ACEMLMLMLGrollsBalance ACMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsRobustESMLSMLSMLJSPEVOLITEEMLMLLJSPMK8R/MK7RESMLSMLSMLJSPMK8ELMLLLKemiraTop CapASMLSMLSMLLASLP2006ESMLSMLSMLLASLP2006ESMLSMLSMLMSAV-Gard IIESMLSMLSMLMSAV-Gard IIESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerMarce J Atlas NomazBSMLSML <td>Centurion</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Centurion					
Centurion1540/ARCOAMLMLMLCenturionConceptESMLSMLSMGrollsBalanceEMLMLMLGrollsBalance ACEMLMLMLGrollsBalance HDMSMLSMLSMLGrollsBobstESMLSMLLGrollsRobustEMLMLLJSPEVOLITEEMLMLLJSPMK6R/MK7RESMLSMLSMLJSPMK8ELMLLLASLP2002ESMLSMLSMLLASLP2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerBrave 1 NomazBSMLSMLSMLRomerProtector/ScottStyle 300*ESMLSMLRomerProtector/ScottStyle 300*ESMLSMLRomerProtector/ScottStyle 300*ESMLSMLRomerProtector/ScottStyle 300*ESMLSMLRomerProtector/ScottStyle 300*						
CenturionConceptESMLSMLSMLMGrollsBalance ACEMLMLMLGrollsBalance ACEMLMLMLGrollsBalance ACEMLSMLSMLGrollsBalance HDMSMLSMLSMLGrollsRobustESMLSMLSMLJSPEVOLITEEMLMLLJSPMK6R/MK7RESMLSMLSMLLASLP202ASMLSMLSMLLASLP2006ESMLSMLSMLMSASuper V-Gard IIESMLSMLSMLPetzlV-ertexESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLProtector/ScottStyle 300*BSMLSMLSMLProtector/ScottStyle 300*ESMLSMLSMLRomerMarcus Tog 2 Atlas NomazBSMLSMLSMLRomerMarcus Tog 2 Atlas NomazBSMLSMLSMLRomerProfi ExpoESMLSMLSMLRomerProfi ExpoESMLSMLSMLRomerTog Expo AtlasBSMLSMLSMLRomerTog Expo AtlasBSMLSMLSMLSchuberthBER S/WPC80						
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	Schuberth	BOPR				
	Schuberth	Piomier	В	SML	SML	SML

Helmet mounted version approved combination:

Helmet brand	Model number	P3 Adapter	3M [™] PELTOR [™] Optime [™] I Earmuffs	3M [™] PELTOR [™] Optime [™] II Earmuffs	3M [™] PELTOR [™] Optime [™] III Earmuffs
Schuberth	SH 91/WPL 91	EB	SML	SML	SML
Schuberth	SW1	EB	ML	ML	ML
Sofop Taliaplast	Oceanic	E	ML	ML	ML
Sofop Taliaplast	Opus	E	ML	ML	ML
Uvex	Airwing	E	SML	SML	SML
Voss	Inap 88	E	SML	SML	SML
Voss	Inap Master	E	ML	ML	ML
Voss	Inap PCG	G	ML	ML	ML
Voss	Inap Star	E	ML	ML	ML

Mass

Model	Mass (grams)
3M [™] PELTOR [™] Optime [™] I Earmuffs (H510A)	180
3M [™] PELTOR [™] Optime [™] I Earmuffs (H510F)	200
3M [™] PELTOR [™] Optime [™] I Earmuffs (H510B)	165
3M [™] PELTOR [™] Optime [™] I Earmuffs (H510P3)	205
3M [™] PELTOR [™] Optime [™] II Earmuffs (H520A)	210
3M [™] PELTOR [™] Optime [™] II Earmuffs (H520F)	230
3M [™] PELTOR [™] Optime [™] II Earmuffs (H520B)	195
3M [™] PELTOR [™] Optime [™] II Earmuffs (H520P3)	235
3M [™] PELTOR [™] Optime [™] III Earmuffs (H540A)	285
3M [™] PELTOR [™] Optime [™] III Earmuffs (H540B)	270
3M [™] PELTOR [™] Optime [™] III Earmuffs (H540P3)	310

Standards and approvals:

The 3M[™] PELTOR[™] Optime[™] Earmuffs are type approved against the European Regulation (EU) 2016/425 by Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41aA, FIN-00250 Helsinki, Finland (Notified Body number 0403). These products meet the requirement of the Harmonised European Standard EN 352-1:2002 (for headband and neckband version) and EN 352-3:2002 (for helmet mounted version). The applicable Certificate(s) and Declaration(s) of Conformity are available at www.3M.com/Hearing/certs.

Material listing

	Headband, neckband and foldable version	Helmet mounted version
Headband/neckband and cover/sleeve	Stainless steel wire, PVC, Acetal	N/A
Helmet attachment arm	N/A	Stainless steel, acetal, polyamide
Cups	ABS	ABS
Insert (liner)	Polyether foam	Ployether foam
Cushions and cushion covers	PU foam and PVC	Polyether/Glycerine. (applies to 3M [™] PELTOR [™] Optime [™] I Earmuffs and 3M [™] PELTOR [™] Optime [™] II Earmuffs only)
Cushion cover	PVC	PVC

Accessories/replacement

The cushions and inserts on the 3M[™] PELTOR[™] Optime[™] range can be replaced with the hygiene kits listed below for improved comfort and reassured protection.

Hygiene kits:

Earmuff model	Hygiene kit
3M [™] PELTOR [™] Optime [™] I Earmuffs (H510A, H510F, H510B, H510P3)	HY51
3M [™] PELTOR [™] Optime [™] II Earmuffs (H520A, H520F, H520B, H520P3)	HY52
3M [™] PELTOR [™] Optime [™] III Earmuffs (H540A, H540B, H540P3)	HY54

In addition, HY100 sweat pads are also available that can be placed on the cushions to help absorb moisture and sweat.

Attenuation values

3M[™] PELTOR[™] Optime[™] I Earmuffs (H510A headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	14.1	11.6	18.7	27.5	32.9	33.6	36.1	35.8
sf (dB)	4.0	4.3	3.6	2.5	2.7	3.4	3.0	3.8
APVf (dB)	10.1	7.3	15.1	25.0	30.1	30.2	33.2	32.0

SNR = 27dB H = 32dB M = 25dB L = 15dB

3M[™] PELTOR[™] Optime[™] I Earmuffs (H510B neckband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	13.3	10.9	17.1	25.4	31.5	32.6	36.3	34.8
sf (dB)	4.1	3.5	2.8	1.8	2.6	4.3	3.4	3.6
APVf (dB)	9.1	7.3	14.3	23.6	28.9	28.3	32.9	31.1

SNR = 26dB H = 30dB M = 24dB L = 15dB

3M[™] PELTOR[™] Optime[™] I Earmuffs (H510F folding headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	14.6	12.2	18.7	27.1	32.9	35.0	36.5	34.4
sf (dB)	3.8	3.4	3.2	3.0	2.1	4.0	2.9	3.9
APVf (dB)	10.8	8.7	15.5	24.1	30.8	31.0	33.6	30.6

SNR = 26 dB H = 32 dB M = 23 dB L = 15 dB

3M[™] PELTOR[™] Optime[™] I Earmuffs (H510P3 helmet mounted)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	13.1	11.2	13.4	26.9	33.9	32.0	33.5	36.9
sf (dB)	2.3	2.0	1.9	1.8	1.9	2.4	1.8	1.8
APVf (dB)	10.8	9.2	11.5	25.1	31.9	29.6	31.7	35.1

Attenuation values

3M[™] PELTOR[™] Optime[™] II Earmuffs (H520A headband)

Mf (dB) 16.2 14.6 20.2 32.5 39.3 36.4 34.4 40.2	requency 6 Hz)	^{uency} 63	125	250	500	1000	2000	4000	8000
	lf (dB) 16	3) 16.2	14.6	20.2	32.5	39.3	36.4	34.4	40.2
sf (dB) 1.9 1.6 2.5 2.3 2.1 2.4 4.0 2.3	(dB) 1.9	1.9	1.6	2.5	2.3	2.1	2.4	4.0	2.3
APVf (dB) 14.3 13.0 17.7 30.2 37.2 34.0 30.4 37.9	PVf (dB) 14	(dB) 14.3	13.0	17.7	30.2	37.2	34.0	30.4	37.9

SNR = 31dB H = 34dB M = 29dB L = 20dB

3M[™] PELTOR[™] Optime[™] II Earmuffs (H520A neckband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	15.9	14.7	20.4	32.3	39.6	36.2	35.4	40.2
sf (dB)	2.1	1.8	2.6	2.5	2.2	2.4	4.2	2.4
APVf (dB)	13.8	12.9	17.8	29.8	37.4	33.8	31.2	37.8



3M[™] PELTOR[™] Optime[™] II Earmuffs (H520F folding headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	16.1	14.5	20.3	32.6	39.1	35.1	34.7	39.8
sf (dB)	2.0	1.8	2.6	2.4	2.5	2.3	2.7	2.5
APVf (dB)	14.1	12.7	17.7	30.2	36.6	32.8	32.0	37.3

SNR = 31dB H = 34dB M = 28dB L = 20dB

3M[™] PELTOR[™] Optime[™] II Earmuffs (H520P3 helmet mounted)

Frequency (Hz)	^y 63	125	250	500	1000	2000	4000	8000
Mf (dB)	15.1	14.1	19.4	32.0	39.9	36.2	35.4	39.2
sf (dB)	2.1	2.3	2.7	2.7	2.4	2.6	4.4	2.6
APVf (dB)	13.0	11.8	16.7	29.3	37.5	33.6	31.0	36.6
SNR = 30 dB	H = 34 dB	M = 28 dB	L = 19 dB					

3M[™] PELTOR[™] Optime[™] III Earmuffs (H540A headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	20.8	17.4	24.7	34.7	41.4	39.3	47.5	42.6
sf (dB)	3.1	2.1	2.6	2.0	2.1	1.5	4.5	2.6
APVf (dB)	17.7	15.3	22.1	32.7	39.3	37.8	43.0	40.0

SNR = 35dB H = 40dB M = 32dB L = 23dB

Attenuation values

3M[™] PELTOR[™] Optime[™] III Earmuffs (H540B neckband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	20.9	17.5	24.5	34.5	41.4	39.5	47.3	42.0
sf (dB)	3.3	2.3	2.7	2.0	2.2	2.0	4.4	2.8
APVf (dB)	17.6	15.2	21.8	32.5	39.2	37.5	42.9	39.2

SNR = 35dB H = 40dB M = 32dB L = 23dB

3M[™] PELTOR[™] Optime[™] III Earmuffs (H540P3 helmet mounted)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	20.1	17.1	24.5	34.8	40.2	39.6	46.7	43.1
sf (dB)	3.3	2.3	2.8	2.2	2.0	1.8	4.2	2.5
APVf (dB)	16.8	14.8	21.7	32.6	38.2	37.8	42.5	40.6

SNR = 34 dB H = 40 dB M = 32 dB L = 22 dB

Attenuation table key:

f = Test frequency

APVf = Assumed Protection Value

Mf = Mean attenuation value

sf = Standard deviation

H = High-frequency attenuation value (predicted noise level reduction for noise with LC - LA = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with LC - LA = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with LC - LA = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, LC in order to estimate the effective A-weighted sound pressure level inside the ear).

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate≈the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

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