

# CE

## **EC TYPE-EXAMINATION CERTIFICATE: 2703**

**Product description: -**

Hearing Protectors – Ear plugs

Product identification: -

See schedule.

Manufacturer: -

Signed

3M United Kingdom PLC 3M Centre Bracknell Berkshire RG12 8HT United Kingdom

When assessed and examined against harmonised standard EN352-2:2002 are found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Date: 13<sup>th</sup> January 2015

KJ Warren, Manager, Certification Services

For and on behalf of INSPEC International Ltd. 56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ, England (Notified Body No: 0194)

Certification remains valid until 13<sup>th</sup> January 2020, providing compliance with INSPEC's terms and conditions is maintained.

Original date of issue: 13<sup>th</sup> January 2015

For terms and conditions of issue, see page 2

## **Terms and Conditions**

#### Reference Documents: -

i)	Test Reports	•	92.10.29, 92.10.32, 96.12.42, 96.12.43, 97.04.32, 97.04.33, 97.04.54, 00.06.33, 00.06.34, 03.11.34, 03.07.40, 1.11.09.11.			
ii)	Technical File	-	TF/2703 and 3M TF0367 refers.			
iii)	Test and Inspection Plan	-	3M TF0367.			

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.
- v) This certificate may be copied or reproduced by the certificate holder, complete and without omissions or additions, and in accordance with INSPEC's terms of business.
- vi) This certificate has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

http://inspec-international.com/ToB.pdf

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

# **CERTIFICATION INDEX**

Item	Status	Issued	Amendment
Pages 1 – 5	Valid	150113	Initial issue.

## **CERTIFICATION SCHEDULE**

Description: E-A-R Cl	assic, E-A-R		luncord	lad)	Size Range:	E 1	,				
			(uncord	led) S	bize kange:	. 5 - 1.	5				
Frequency	63	125	250	500	1000	2000	4000	8000			
Mean Attenuation (dB)	22.3	23.3	24.6	26.9	27.4	34.1	41.6	40.4			
Standard Deviation (dB)	5.4	5.3	3.6	5.4	4.8	3.1	3.5	6.4			
Assumed Protection											
(dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0			
	H = 30;	M = 24;	L = 22	S	SNR = 28						
Description: E-A-R Classic Plus (uncorded) Size Range: 5 - 13											
Frequency	63	125	250	500	1000	2000	4000	8000			
Mean Attenuation (dB)	28.8	30.8	32.4	34.1	34.3	37.6	46.0	43.9			
Standard Deviation (dB)	6.3	4.6	4.2	5.4	4.5	3.4	2.1	4.6			
Assumed Protection											
(dB)	22.5	26.1	28.2	28.6	29.8	34.2	43.9	39.3			
	H = 3	5; M = 31	L; L = 29	9	SNR =	34					
Description: E-A-R Cla	accie Emall	(uncorded)		Size Dan		4					
Description: E-A-R Cla	assic Small	(uncorded)		Size Ran	<b>ge:</b> 5 - 1						
Frequency	63	125	250	500	1000	2000	4000	8000			
Mean Attenuation (dB)	21.3	25.8	27.6	30.8	31.1	35.6	41.9	42.9			
Standard Deviation (dB)	10.4	7.9	8.8	8.6	6.7	4.2	4.9	6.2			
Assumed Protection	10.4	7.5	0.0	0.0	0.7	7.2	т.5	0.2			
(dB)	10.9	17.9	18.8	22.2	24.4	31.4	37.0	36.8			
H = 31; M = 25; L = 21 SNR = 28											
Description: E-A-R Su	inerfit 36 (u	incorded)		Size Ran	<b>ge:</b> 5 -	13					
	ipernic 50 (u	incoraca)		Size Rang	ge. J	15					
Frequency	63	125	250	500	1000	2000	4000	8000			
Mean Attenuation (dB)	29.1	32.4	36.0	38.0	38.9	39.1	43.1	44.6			
Standard Deviation (dB)	6.2	7.3	7.3	6.8	6.7	3.1	6.1	6.3			
Assumed Protection											
(dB)	22.8	25.0	28.7	31.2	32.2	35.9	37.0	38.4			
		M = 33;			SNR = 36						
	3.0,										
Description: E-A-R Su	perfit 33 (u	ncorded)		Size Ran	<b>ge:</b> 5 -	12					
			0.75		1000		(005	0000			
Frequency	63	125	250	500	1000	2000	4000	8000			
Mean Attenuation (dB)	24.9	27.5	31.2	33.9	34.5	37.5	43.3	45.0			
Standard Deviation (dB)	7.2	6.9	6.9	7.0	6.0	3.3	3.3	4.8			
Assumed Protection											
(dB)	17.7	20.6	24.3 L = 26	27.0	28.5	34.2	40.1	40.2			
H = 35; M = 29; L = 26 SNR = 33											

Description: E-A-R Classic & E-A-R Classic II (corded) Size Range: 5 - 13									
Frequency	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	21.7	23.7	26.1	30.4	30.1	33.8	42.6	42.1	
Standard Deviation (dB)	6.3	5.6	5.2	5.7	5.3	4.6	4.0	5.7	
Assumed Protection (dB)	15.4	18.0	20.9	24.6	24.9	29.2	38.6	36.4	
	H = 30; I	4 = 26;	L = 23	S	NR = 29				
Description: E-A-R Classic Soft (corded) Size Range: 9 - 12									
Frequency	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	31.8	33.9	35.9	36.6	36.8	37.1	43.4	44.7	
Standard Deviation (dB)	4.6	5.3	5.0	4.2	4.6	3.7	4.2	5.7	
Assumed Protection (dB)	27.2	28.6	30.9	32.4	32.2	33.4	39.2	39.0	
	L = 32	S	NR = 36						
Description: E-A-R Classic Soft (uncorded) Size Range: 9 - 12									

Frequency	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	28.2	30.6	32.8	35.9	36.0	38.5	43.8	43.1
Standard Deviation (dB)	6.7	6.4	5.4	4.2	3.7	3.2	3.8	3.8
Assumed Protection								
(dB)	21.5	24.2	27.4	31.7	32.3	35.3	40.0	39.3
H = 36; M = 33; L = 29 SNR = 36								

In addition to the products referenced on this certificate, the standard industrial product may also be sold as market specific packaged variants. Such variants will be differentiated and the Technical File will be updated with the appropriate

information.