

## EC TYPE-EXAMINATION CERTIFICATE: 2703

**Product description: -** Hearing Protectors – Ear plugs

**Product identification: -** See schedule.

**Manufacturer: -** 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.

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

K.J. 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,<br>96.12.43, 97.04.32, 97.04.33,<br>97.04.54, 00.06.33, 00.06.34,<br>03.11.34, 03.07.40, 1.11.09.11. |
| ii)  | Technical File           | - | TF/2703 and 3M TF0367<br>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- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.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

<b>Item</b>	<b>Status</b>	<b>Issued</b>	<b>Amendment</b>
Pages 1 – 5	Valid	150113	Initial issue.

# CERTIFICATION SCHEDULE

**Description:** E-A-R Classic, E-A-R Classic II (uncorded)      **Size Range:** 5 - 13

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      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 = 35; M = 31; L = 29      SNR = 34

**Description:** E-A-R Classic Small (uncorded)      **Size Range:** 5 - 11

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 (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 Superfit 36 (uncorded)      **Size Range:** 5 - 13

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

H = 36; M = 33; L = 30      SNR = 36

**Description:** E-A-R Superfit 33 (uncorded)      **Size Range:** 5 - 12

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	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; M = 26; L = 23      SNR = 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

H = 35; M = 33; L = 32      SNR = 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.

