

EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Cain Road
Bracknell
RG12 8HT
United Kingdom

Holds Certificate Number:

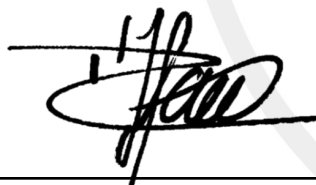
CE 773229

In respect of:

Personal hearing protection to EN 352-2:2020 - Earplugs
Models: E-A-Rsoft™ Yellow Neons™, E-A-Rsoft™ Metal Detectable,
E-A-Rsoft™ FX™, 1100, 1110

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified
Body for the above Regulation
(Notified Body Number 2797):



Drs. Dave Hagenaaars, Managing Director

First Issued: 2022-11-02

Latest Issue: 2022-11-02

Effective Date: 2022-11-02

Expiry Date: 2027-11-01

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EU Type Examination Certificate

No. CE 773229

Product Specification

Product Name: 3M™ Disposable Earplugs

Product Type: Hearing Protectors – Earplugs

Model: E-A-Rsoft™ Yellow Neons™ (corded and uncorded)
E-A-Rsoft™ Metal Detectable (corded)
E-A-Rsoft™ FX™ (corded and uncorded)
1100 (uncorded)
1110 (corded)

Technical Specification: Harmonized European Standard EN 352-2:2020

Product Description: These earplugs are designed to be inserted into the ear canal to protect against hazardous noise and loud sounds.

EN 352-2 Classifications: Disposable

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Model: E-A-Rsoft Yellow Neons (corded and uncorded)

Attenuation Values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	30.1	32.7	34.3	37.9	37.6	33.9	43.8	40.1
Standard Deviation SD (dB)	7.5	7.4	6.5	5.4	3.7	3.7	4.0	4.0
Assumed Protection Value APV_f (dB) ($APV_f = MV - SD$)	22.6	25.3	27.8	32.5	33.9	30.2	39.8	36.1

High, Medium and Low Frequency Attenuation Values and Single Number Rating

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.0	3.3	33
Medium Frequency Attenuation Value (M)	36.1	3.5	33
Low Frequency Attenuation Value (L)	34.8	5.0	30
Single Number Rating (SNR)	37.3	3.3	34

Sizing

Nominal Diameter: Smallest – 6 mm Largest – 11 mm

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Model: E-A-Rsoft Metal Detectable (corded)

Attenuation Values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	30.1	32.7	34.3	37.9	37.6	33.9	43.8	40.1
Standard Deviation SD (dB)	7.5	7.4	6.5	5.4	3.7	3.7	4.0	4.0
Assumed Protection Value APV_f (dB) ($APV_f = MV - SD$)	22.6	25.3	27.8	32.5	33.9	30.2	39.8	36.1

High, Medium and Low Frequency Attenuation Values and Single Number Rating

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.0	3.3	33
Medium Frequency Attenuation Value (M)	36.1	3.5	33
Low Frequency Attenuation Value (L)	34.8	5.0	30
Single Number Rating (SNR)	37.3	3.3	34

Sizing

Nominal Diameter: Smallest – 6 mm Largest – 11 mm

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Model: E-A-Rsoft FX (corded and uncorded)

Attenuation values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	37.6	34.3	39.6	41.2	39.1	38.2	47.5	48.6
Standard Deviation SD (dB)	6.7	5.9	6.3	6.6	5.6	3.8	5.3	4.0
Assumed Protection Value APV_f (dB) ($APV_f = MV - SD$)	30.9	28.4	33.3	34.6	33.5	34.4	42.2	44.6

High, Medium and Low Frequency Attenuation Values and Single Number Rating

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	40.0	3.8	36
Medium Frequency Attenuation Value (M)	38.9	4.4	35
Low Frequency Attenuation Value (L)	38.3	4.9	33
Single Number Rating (SNR)	40.9	4.0	37

Sizing

Nominal Diameter: Smallest – 5 mm Largest – 14 mm

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Model: 1100 (uncorded)
1110 (corded)

Attenuation values

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	26.8	30.4	34.4	37.1	38.7	34.9	44.7	39.3
Standard Deviation SD (dB)	5.7	4.6	6.4	4.9	5.1	4.2	2.3	5.1
Assumed Protection Value APV _f (dB) (APV _f = MV-SD)	21.1	25.8	28.0	32.2	33.6	30.7	42.4	34.2

High, Medium and Low Frequency Attenuation Values and Single Number Rating

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	36.4	3.4	33
Medium Frequency Attenuation Value (M)	35.8	2.6	33
Low Frequency Attenuation Value (L)	33.8	3.1	31
Single Number Rating (SNR)	37.1	2.5	35

Sizing

Nominal Diameter: Smallest – 6 mm Largest – 13 mm

Packaged variants

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

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product, but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

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Certificate Administration Details

Technical File Reference:

Item	Technical File
3M™ Disposable Earplugs	TF0686

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
November 2022	First issue.	2797:22:3701450

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type Based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

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