

# UKCA Type Examination Certificate

This is to certify that:

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

Holds Certificate Number:

UKCA 773212

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 2016/425 on Personal Protective Equipment, as amended to apply in GB (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II.

For and on behalf of BSI, an Approved  
Body for the above Regulation  
(Approved Body Number 0086):



Shahm Barhom, Group Product Certification Director

First Issued: 2022-11-02

Latest Issue: 2022-11-02

Effective Date: 2022-11-02

Expiry Date: 2027-11-01



Page: 1 of 7

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No. UKCA 773212

## Product Specification

<b>Product Name:</b>	3M™ Disposable Earplugs
<b>Product Type:</b>	Hearing Protectors – Earplugs
<b>Model:</b>	E-A-Rsoft™ Yellow Neons™ (corded & uncorded) E-A-Rsoft™ Metal Detectable (corded) E-A-Rsoft™ FX™ (corded & uncorded) 1100 (uncorded) 1110 (corded)
<b>Technical Specification:</b>	Designated Standard EN 352-2:2020
<b>Product Description:</b>	These earplugs are designed to be inserted into the ear canal to protect against hazardous noise and loud sounds.
<b>EN 352-2 Classifications:</b>	Disposable

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Page: 2 of 7

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# UKCA Type Examination Certificate

No. UKCA 773212

**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 <sub>f</sub> (dB) (APV <sub>f</sub> = 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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Page: 3 of 7

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# UKCA Type Examination Certificate

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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 <sub>f</sub> (dB) (APV <sub>f</sub> = 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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Page: 4 of 7

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# UKCA Type Examination Certificate

No. UKCA 773212

**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 <sub>f</sub> (dB) (APV <sub>f</sub> = 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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Page: 5 of 7

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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 <sub>f</sub> (dB) (APV <sub>f</sub> = 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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Page: 6 of 7

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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.	0086:22:3701413

**Certificate validity**

The Certificate holder is responsible for ensuring that the Approved 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 UKCA Conformity to Type based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate UKCA 745215.

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