



## 3M™ Triflange™ Ear plugs

### Product Description

The 3M™ Triflange™ pre-moulded ear plugs are designed for insertion into the ear canal to help reduce exposure to hazardous levels of noise and loud sound. These products are available with two different cords; PVC and cotton braided.

### Key Features

- Bright, vibrant colour appeals to the younger wearer
- Soft flexible flanges conform to the shape of ear canal thus providing effective seal
- Ergonomically designed stem for easy insertion and removal of the ear plug
- One size fits majority of wearers
- Good attenuation (SNR 29dB) that meets the needs of the majority of industrial applications
- Easy to wash and clean
- Available in two different cords; PVC and cotton braided

### Applications

The 3M™ Triflange™ ear plugs are ideal for high to moderate noise exposure levels, and are ideally suited for all frequency noise in a wide range of industrial workplace and leisure environment. Examples of typical applications include:

- Automotive
- Construction
- Metal processing
- Leisure
- Textile manufacture
- Chemical & pharmaceutical manufacture
- Woodworking
- Heavy engineering

### Standard & Approval

The 3M™ Triflange™ ear plugs are tested and CE approved against the European Standard EN352-2:2002. These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and have been examined at the design stage by INSPEC International Limited, 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, UK (Notified Body number 0194).

### Materials

The following materials are used in the manufacture of this product.

Component	Materials
Ear plugs	Thermoplastic elastomer
Cord	Recycled PVC or cotton

### Product Range



3M™ Triflange™ Ear plugs  
- cotton cord



3M™ Triflange™ Ear plugs  
- PVC cord

## Attenuation values

### 3M™ Triflange™ Ear plugs

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mf (dB)	27.8	29.9	29.6	30.8	35.3	34.6	38.7	43.0
sf (dB)	6.8	8.2	7.7	6.8	6.7	7.1	8.8	5.9
APVf (dB)	21.0	21.7	22.0	24.0	28.5	27.5	29.9	37.1

SNR = 29dB    H = 29dB    M = 27dB    L = 24dB    APVf (dB) = Mf – sf (dB)

## Key

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = -2\text{dB}$ )

M = Medium-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +2\text{dB}$ )

L = Low-frequency attenuation value (predicted noise level reduction for noise with  $L_C - L_A = +10\text{dB}$ )

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

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

## 3M Health & Safety Helpline

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