

# PRO-27 Hearing Protector

## Product Strapline

The strongest plug in the PRO range, for seriously loud environments

## Short Description

The PRO-27 filter provides attenuation specifically designed for very high noise situations where audible speech is still a requirement. Offering around 23dB isolation through the mid-range the PRO-27 peaks at nearly 35dB in the high frequencies offering exceptional isolation from dangerously loud high frequencies experienced in the pit lane, on a race bike or close-up to industrial machinery and tools. The PRO-27 is vented so that your own voice sounds more natural when speaking and is splash-proof making it ideal for use in the most demanding of environments. NOTE : The PRO-27 filter and plug are not interchangeable with others in the PRO range.

SRP £139

Part Code PRO-27

Rev. Date 02/11



## Full Description

### A serious filter for the most demanding environments

The PRO-27 is a breakthrough in high-noise filtering giving you an almost flat reduction of around 23dB through the low and mid range frequencies so that you maintain situation awareness and your ability to communicate but can still be comfortable in very loud environments. In the higher frequencies the PRO-27 gives you a stark jump in protection offering up to 35dB where you need it most so you can carry on working or enjoying your passion in safety. With an average attenuation of 27dB the PRO-27 can increase your safe exposure time by up to 9 times

### The next generation of filter design

The PRO filter series has been designed anew with the wearer in mind. For starters, it's smaller than many competing filters which means it can fit into smaller ears without any protrusion which is great for both comfort and aesthetics because it will always fit snugly underneath a helmet or other headwear. The filters are also removable so you can clean and maintain your earmoulds and your filters to give you the maximum life and the best value for money from your plugs. In addition, the PRO series are water resistant so they can be used outside or in high moisture environments and can withstand perspiration without it damaging the filter membrane.

### The curse of the occlusion effect

Trying to create a natural sounding earplug is no mean feat as far as your own voice is concerned because, as you will have experienced, when you block off your ear canal your own voice starts to boom inside your head, this is what we call occlusion. Occlusion is caused by sound that is carried to your ear canal through the cartilage at the side of your head and usually escapes through the open ear canal so is not heard. When we block off the canal this sound cannot escape and so creates that booming effect. A large amount of occlusion can be eliminated by ensuring that the earplug sits deep enough into the ear canal to extend past the cartilage so that the sound hits the plug and is deadened rather than entering the canal at all but the PRO filters go one step further. The PRO series are vented to allow sound to pass both ways which means that remaining sound can escape directly through the filter providing one of the most natural sounding earplugs available.

### Tailor made for you

The PRO-27 is custom-made using soft medical-grade silicone so you get the very best in isolation and fit allowing you to wear them for hours at a time without fatigue or discomfort. Each earpiece is manufactured to the highest standards ensuring you get a comfortable, discreet and effective hearing protector that can be fitted quickly, easily and securely every time.

**NOTE :** PRO-27 filters and earmoulds are not interchangeable with other filters and earmoulds in the PRO range.

# PRO-27 Hearing Protector

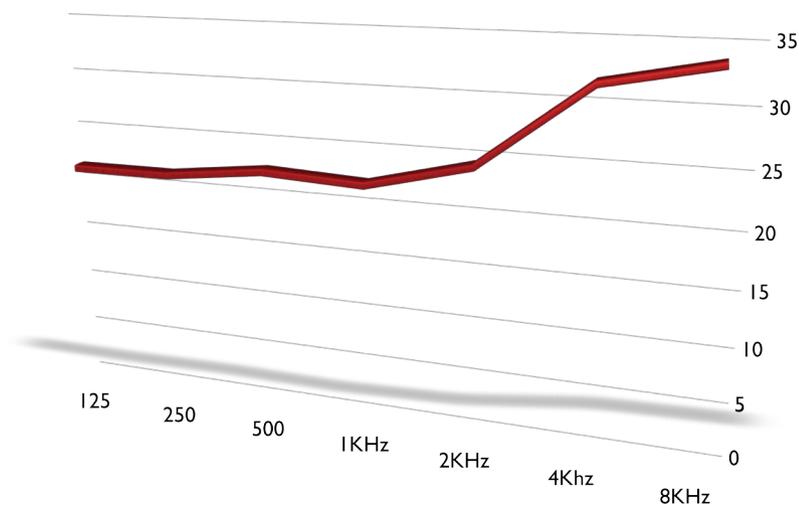
## Technical Specification

SNR (Single Number Rating)	27dB
High Spectrum Average Attenuation	27dB
Mid Spectrum Average Attenuation	24dB
Low Spectrum Average Attenuation	23dB
Weight	3g Net   83g Gross   Average weight will vary according to ear size
Build Material	40 Shore Medical Grade Silicone
Mould Type	Canal Mould
Standard Colour	Clear
Included Accessories	Instruction Leaflet, Wax Pick, Comfort Cream, Carry Pouch
Optional Accessories	None
Package Dimensions	170mm x 125mm x 28mm
Warranty Period	1 Year against manufacturing and component failure
Attenuation Determined By	BSI Product Services (0086), Maylands Avenue Hemel Hempstead, Herts, HP2 4SQ

## Build options

Colour (Clear Default) - SRP £10	The PRO-27 can be produced in colours from our current colour chart
Laser Etching (None Default) - SRP £10	The PRO-27 can be laser etched up to 10 characters
Removal Grips - SRP £10	The PRO-27 may be fitted with grips to aid removal
Connection Cord - SRP £10	The PRO-27 may be fitted with a connection cord for security

## Attenuation



Mean Attenuation (M in dB)	24.22	23.44	25.94	24.84	27.19	34.53	37.81
Standard Deviation (S)	2.37	1.55	3.01	2.32	2.39	2.62	4.07
Assumed Protection (APV in dB)	21.85	21.89	22.93	22.52	24.79	31.91	33.74
SNR (dB) 27	L(dB) 23		M(dB) 24		H(dB) 27		