FUSION™

Maximum Comfort Superb Fit

A vision of what's next in reusable earplugs.

HOWARD LEIGHT
HEARING PROTECTION

Challenge.

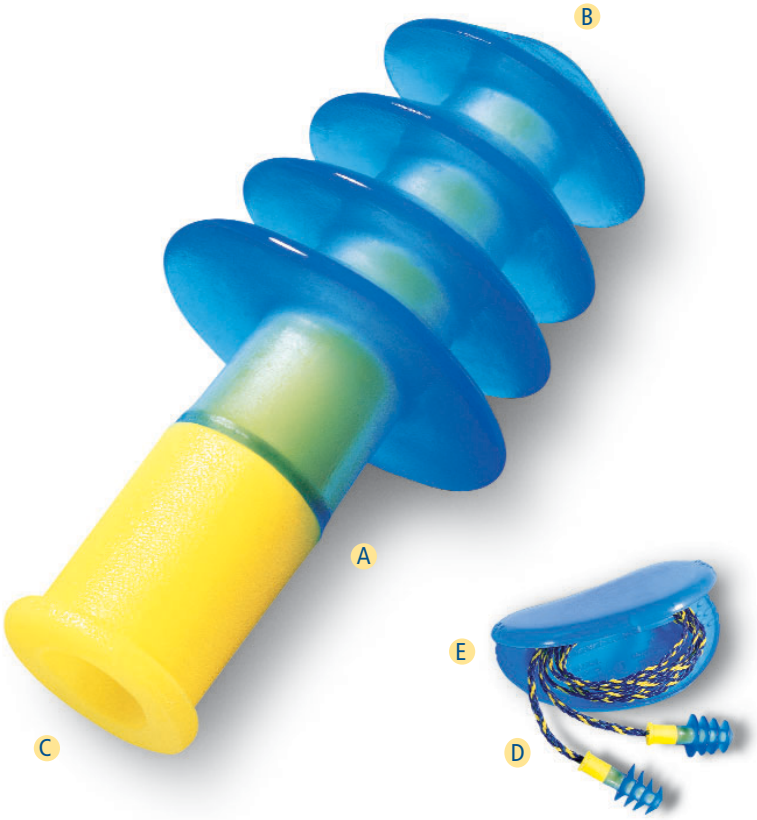
The Fusion™ development process began with a simple objective: identify and combine the materials necessary for an earplug to have the ideal balance of comfort and performance. Like any difficult problem, it started with simple questions.

How soft could it be?
If you were to wear an earplug all day, you would want the maximum comfort available.

It would be so soft you could barely feel it and exert minimum pressure on the ear canal.

But an earplug this soft would be so pliable that it would be difficult to insert securely.

Fusion™ blends materials science in an earplug that uniquely comb



Fusion™ Perf

	Feature
A	**Fused design**
B	**SoftFlange™ seal**
C	**FlexiFirm™ core**
D	**Detachable cord system**
E	**HearPack™** (shown) **or Flip-Top Box**
	Stylish design

How firm could it be?
To ensure the best fit and attenuation with every insertion, an earplug would have to be quite firm.

While it would provide the control you need to position it easily and properly in your ear canal, an earplug this firm would be very painful to wear.

Could it be both?
The ideal earplug would combine soft and firm materials in one design.

Howard Leight's patented multi-material molding process, thermally bonds soft and firm materials.

The result is a new type of reusable earplug—Fusion™.

Solution.

The Fusion™ reusable earplug uses advanced manufacturing technology to thermally fuse soft outer flanges to a firm inner core material. The resulting earplug delivers a revolutionary blend of all-day comfort and easy handling.

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nbines comfort and performance.

rformance Profile

Description	Benefit
Patented multi-material molding process	Combines firm core for easy handling and soft flanges for comfort and fit
Patented quadruple flange design	Provides all-day comfort and superb attenuation
Regular and Small size choices	Fine-tunes the fit for personal comfort and safety
NRR27 rating	The highest attenuation available in a reusable earplug
Hygienic materials	Easy to clean-up and re-use
Easy to grasp and insert	Fits properly, stays in place, provides maximum protection
Soft, braided fabric with smooth ends	Works great corded or uncorded adapts to any application
Two storage choices	Easy to stow on a break, store between shifts or keep right at hand
Modern shape, color and materials	Desirable choice that workers will want to wear

Fusion™ Ordering Information

Reference #	Description	Storage box	Configuration
FUS30	**Regular** Size with Detachable Cord	Flip-Top Box	Case of 1,000 pairs. 10 boxes per case. 100 pairs per self-dispensing box.
FUS30S	**Small** Size with Detachable Cord	Flip-Top Box	Case of 1,000 pairs. 10 boxes per case. 100 pairs per self-dispensing box.
FUS30-HP	**Regular** Size with Detachable Cord	HearPack™	Case of 1,000 pairs. 10 boxes per case. 100 pairs per self-dispensing box.
FUS30S-HP	**Small** Size with Detachable Cord	HearPack™	Case of 1,000 pairs. 10 boxes per case. 100 pairs per self-dispensing box.

Fusion™ Reusable Earplugs Attenuation Data

NRR27 dB	Attenuation tested according to ANSI S.3.19-1974								
Frequency | Hz	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation | dB	29.5	29.9	32.3	33.9	37.3	41.1	42.7	47.9	47.6
Standard Deviation | dB	4.6	3.7	2.8	2.8	4.1	3.6	4.6	4.8	3.2

Fitting Instructions

Insertion

Grasp the earplug by the stem. While reaching around your head, pull up on the back of your outer ear, insert the flange well inside your ear canal, until you feel it seal and the fit is comfortable.

Testing

Test the seal by cupping your hands over both ears in a noisy area. If there is a noticeable noise level change, remove and reinsert.

Removal

Always remove slowly, twisting the earplug gently to break the seal.

Care

Clean often in soapy water. Replace hard, torn or deformed plugs.

Howard Leight

Howard Leight Industries is a leading manufacturer of hearing protection devices, including disposable and reusable earplugs, banded hearing protectors and earmuffs. An ISO 9001 certified company, Howard Leight has been driving wordwide development and innovation in hearing protection for over twenty-five years. Its world-class audiology department maintains the highest industry standards in the design and evaluation of hearing protection devices.

HOWARD LEIGHT
HEARING PROTECTION

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