



EC TYPE-EXAMINATION CERTIFICATE: 1134

Product description: -

Hearing Protection – Re-usable Ear-plug

Product identification: -

Howard Leight SMARTFIT

Manufacturer:

Sperian Hearing Protection LLC 7828 Waterville Road San Diego CA 92154

When assessed and examined against harmonised standard EN352-2:2002 are found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Authorised EU Representative: -

Sperian Protection Europe Immeuble Edison - ZI Paris Nord II 33 Rue des Vanesses, BP55288 95958 Roissy CDG Cedex

France

Signed

...... Date: 10th October 2003

K J Warren, Manager, Certification Services

For and on behalf of INSPEC International Ltd. 56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ England (Notified Body No: 0194)

certificate invalid if not embossed

For terms and conditions of issue, see page 2

Terms and Conditions

Reference Documents: -

i) Test Reports - INSPEC 03.06.49, 04.08.09, 04.09.50

ii) Technical File - TF/1134

iii) Test and Inspection Plan - SMF EARPLUG-SMARTFIT, RAW 8/1/03

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.

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CERTIFICATION INDEX

Item	Status	Issued	Amendment
Page 1 of 2 Page 2 of 2 Page 1 of 2(Amendment ONE) Page 2 of 2(Amendment ONE)	Withdrawn Withdrawn Withdrawn Withdrawn	5/40/04	T. J. M. J. J. O. W. J. J. D.
Page 1 of 2(Amendment TWO) Page 2 of 2(Amendment TWO)	Withdrawn Withdrawn	5/10/04 5/10/04	To add Model Smartfit blue detectable with PVC cord Add test report 04.09.50
Page 1 to 4	Valid	24/11/08	Name change to SPERIAN

CERTIFICATION SCHEDULE

Model:

SMARTFIT

SMARTFIT Orange / Cotton Cord SMARTFIT Blue / Nylon Cord

SMARTFIT Blue, Detectable plus PVC cord

Description:

Re-usable earplug

Size Range: 6 – 12mm

Attenuation Data - corded

Freq. (Hz)	125	250	500	1000	2000	4000	8000
Mean att. (dB)	19.5	21.1	22.0	21.4	27.4	31.2	35.7
Std. Dev. (dB)	12.2	10.8	9.9	9.6	8.4	8.5	11.3
APV (dB)	7.6	10.8	12.1	11.8	19.0	22.7	25.4
H = 32dB	N	1 = 27dB		L = 23dB		SNR = 30dB	

Attenuation Data - uncorded

Freq. (Hz)	125	250	500	1000	2000	4000	8000
Mean att. (dB)	20.4	20.8	22.4	25.2	30.4	33.4	37.8
Std. Dev. (dB)	8.0	9.3	9.0	8.6	5.9	7.5	8.0
APV (dB)	12.4	11.5	13.4	16.6	24.5	25.8	29.8
H = 32dB			L = 23dB	SN	NR = 30dB		

Canada (English) Partners | Where To Buy |





Product Family SmartFit Multiple-Use Earplug Delivers superior comfort and a truly personalized fit

Learn more about our products at howardleight.com



Product Numbers & Ordering Information

Product Numbers	Details
SMF-30	SmartFit NRR 25 Canada Class A(L)

Overview

Key Features

- Patented Conforming Material Technology uses body heat to adapt to the individual shape of each wearer's ear canal
- Delivers superior comfort and a truly individual fit
- Simplifies inventory control a single product fits almost every wearer
- Detachable cord system and HearPack storage case

Recommended Industries/Use

- Agriculture Chemical Construction Fire Protection Forestry Government
- Law Enforcement

Hazards

Noise

Regulations

- 29 CFR 1910.95 OSHA Occupational Noise Exposure (US)
- ANSI S3.19-1974 Attenuation Test Protocol (US)
- Part II, (R.S.C. 1985, c. L-2) Canada Labour Code
- Z94.2-1994 Attenuation Test Protocl (CAN)
- 2003/10/EC EU Hearing Directive
- 89/686/EEC EU Directive/PPE
- Category II EC Category/PPE
- EN 352-2:2002 EU Standards
- NOHSC: 1007 (2000) National Standard for Occupational Noise (AUS/NZ)

SmartFit Multiple-Use Earplug

- NR 15 Security and Health of Work, Annexes 1 and 2, n°3.214/1978 Occupational Noise Regulations (BR)
- ANSI S12.6/1997 Method B Attenuation Test Protocol (BR)

Historical Brand

Howard Leight

Specifications

Color

Orange

Shape

• 3 Flange

Material

• TPE

Packaging Options

HearPack

Cord Options

Detachable Nylon Cord

NRR

• 25

Canada Class

A(L)

SNR

• 30

SLC80

• 20 dB / Class 3

EU Certifications

- European Directives 89/686/EEC
- EC Category PPE Category II
- Standards EN 352-2:2002
- EC Certification Number 1134
- EC Attestation Number 030649; 040809 & 040950
- Laboratory INSPEC

AUS Certifications

• Standardsmark License #1133/1

Literature & Documents

EU Certification Report - SmartFit

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/Secured/Hearing_Protection/Earplugs/20056/1033.aspx

EC Attestation Report - SmartFit

Earplug Fitting Poste AU

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294996741/1033.aspx

Earplug Fitting Instructions Keys to Successful Hearing Protection with Earplugs Wear Read and follow all earplug fitting instructions. Selection Avoid overprotection in minimal noise environments – in selecting the best earplug for your situation, consider noise levels and your need to communicate with co-workers or h

DOC2653 HEAR AFF Earplug Fit 508x800 SPa

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294996680/1033.aspx

SmartFit Multiple-Use Earplug

Claves Para una Proteccin Auditiva Correcta con Tapones Uso • Lea y siga todas las instrucciones de colocaccin de los tapones para los odos. Seleccin • Evite la sobreproteccin en ambientes donde el ruido sea mnimo: al seleccionar los mejores tapones en su situacin, considere los niveles de ruido y su necesidad de comun

DOC2654 HEAR AFF Earplug Fit 508x800 FRa

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294996681/1033.aspx

Conseils pour insrer efficacement vos bouchons d'oreille Utilisation • Lire et suivre attentivement le mode d'emploi Slection • Eviter la sur-protection dans un environnement faible niveau sonore • Slectionner la protection auditive la plus adquate en fonction du niveau sonore, des besoins de communication avec les co

Hearing Thermometer POST AU

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294996746/1033.aspx

M1Rifle 161 dB Fireworks 162 dB Handgun 166 dB Apollo Lift-Off 188 dB Shotgun 170 dB Artillery Fire 162 dB Firecracker 150 dB Balloon Pop 157 dB Jet Engine Take-Off 150 dB Engine Backfire 140 dB Bicycle Horn 143 dB Dynamite Blast 140 dB Pig Squeal 130 dB Jackhammer 130 dB Auto Racing 130 dB Oxygen Torch 121 dB Hammer o

Earplug Fitting Poste AU

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294996741/1033.aspx

Earplug Fitting Instructions Keys to Successful Hearing Protection with Earplugs Wear Read and follow all earplug fitting instructions. Selection Avoid overprotection in minimal noise environments – in selecting the best earplug for your situation, consider noise levels and your need to communicate with co-workers or h

POST14 Care and Maintenance

http://www.honeywellsafety.com/Supplementary/Documents_and_Downloads/4294997025/1033.aspx

CARE AND MAINTENANCE Single-Use Earplugs Inspect Inspect prior to fitting, examine your earplugs for dirt, damage or extreme hardness —discard immediately if compromised. Discard For proper hygiene, discard Single-Use earplugs after use. Hygiene To maintain hygiene standards, Single-Use earplugs should be discarded at

Training & Proper Use

- 1. While holding the stem, reach a hand over your head and gently pull top of your ear up and back.
- 2. Insert the earplug so all flanges are well inside your ear canal.
- 3. If properly fitted, the tip of the earplug stem may be visible to someone looking at you from the front.
- 4. Proper Fit If either or both earplugs do not seem to be fitted properly, remove the earplug and reinsert.
- 5. Removal Gently twist earplug while slowly pulling in an outward motion for removal.
- Acoustical Check In a noisy environment, with earplugs inserted, cup your hands over your ears and release.
 Earplugs should block enough noise so that covering your ears with your hands should not result in a significant noise difference.

Additional Information

CARE + MAINTENANCE

- INSPECT Prior to fitting, examine your earplugs for dirt, damage, deformation or extreme hardness—discard immediately if compromised.
- CLEAN Wash Multiple-Use earplugs with mild soap and warm water only. Pat dry with a towel and store in a case when
 not in use. Do not treat with any other substances, as the earplugs may degrade and compromise use.
- HYGIENE With proper maintenance, Multiple-Use earplugs can last for 2-4 weeks.

RELATED PRODUCTS

© Honeywell International Inc.



► ► ► SMARTFIT™ MULTIPLE USE EARPLUG

PRODUCT INFORMATION

Ears are like people, each one is unique and different. That is what makes SmartFit such a marvel of user-friendly design. SmartFit is the only multiple-use earplug with Conforming Material Technology™ providing the ultimate custom fit. As SmartFit warms up, it takes on the shape of the surrounding ear canal. Unlike traditional earplugs, which at first feel fine, but can irritate over time, SmartFit actually feels better the longer that you wear it. When removed, the SmartFit returns to its original shape, ready to be used again and again. There's no easier way to offer greater comfort, protection and convenience for everyone.

The triple fin design maximises user comfort by delivering more contact inside the ear canal and creates a better seal. A comfortable earplug is more likely to be worn consistently, minimising over-exposure to noise. With a detachable cord system (SMF-30A only), HearPack carry case, it's the ultra-smart choice for today's diverse workplace.



- ⇒ Material adapts to the ear canal for comfort and longer use.
- ⇒ Easy insertion and removal
- ⇒ High visibility for compliance checks.
- ⇒ One size will fit most users.
- \Rightarrow Protective case for long term use.
- \Rightarrow Easy to clean using soap and water.
- ⇒ Special application cotton cord version available for use in the paper/pulp industries.

APPLICATIONS

⇒ Any noise environment 95dB to less than 100dB (when used uncorded) or 90dB to less than 95dB (when used corded)





SMF-30W-PA

TECHNICAL INFORMATION

Material: Thermoplastic Elastomer

Diameter: 12.95mm Length: 31.75mm

Cord Length: 923.9mm vinyl (blue), cotton (white)

Weight: 0.89g Colour: Orange

Storage Case: HearPack - polypropylene

Temperature: -26°C to +60°C

STANDARDS

⇒ Approved to AS/NZS 1270:2002

License number 1579

⇒ SLC₈₀ 20dB Class 3 (uncorded)

Frequency	125	250	500	1000	2000	4000	8000
Mean Value dB	20.4	20.8	22.4	25.2	30.4	33.4	37.8
Std Deviation dB	8.0	9.3	9.0	8.6	5.9	7.6	8.0
Mean-Std Dev dB	12.4	11.5	13.4	16.6	24.5	25.8	29.8

⇒ SLC₈₀ 16dB Class 2 (corded)

Frequency	125	250	500	1000	2000	4000	8000
Mean Value dB	19.8	21.1	22.0	21.4	27.4	31.2	36.7
Std Deviation dB	12.2	10.3	9.9	9.6	8.4	8.5	11.3
Mean-Std Dev dB	7.6	10.8	12.1	11.8	19.0	22.7	25.4

ORDERING INFORMATION

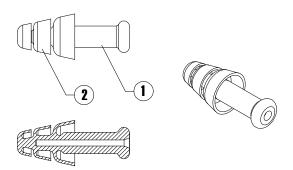
Part Number	Description	Pairs Per Box		Box dimensions L x H x D (mm)		Case Dimensions L x H x D (mm)	Case Weight	Bar code
SMF-30A	Detachable Cord, HearPack	50	1	171 x 117 x 117	620g	635 x 127 x 368	6.7kg	033552011729
SMF-30W-PA	Process Ind, Attached Cotton Cord, Paper Bag	50	1	203 x 197 x 129	530g	650 x 205 x 426	3.28kg	033552014300

WARNING! THIS DOCUMENT PROVIDES AN OVERVIEW OF PERSONAL PROTECTIVE PRODUCTS AVAILABLE FROM SPERIAN PROTECTION AND CARE HAS BEEN TAKEN TO ASSURE THE ACCURACY OF THE DATA. IT DOES NOT PROVIDE IMPORTANT PRODUCT WARNINGS AND INSTRUCTIONS. SPERIAN PROTECTION RECOMMENDS ALL USERS OF ANY PERSONAL PROTECTIVE EQUIPMENT UNDERGO THOROUGH TRAINING, AND THAT ALL WARNINGS AND INSTRUCTIONS PROVIDED WITH THE PRODUCTS BE THOROUGHLY READ AND UNDERSTOOD PRIOR TO EACH USE. FAILURE TO READ AND FOLLOW ALL PRODUCT WARNINGS AND INSTRUCTIONS COULD RESULT IN SERIOUS INJURY.

Sperian Protection Australia Pty Ltd Ph Aust: 1300 139 166 NZ: 0800 322 200 www.sperianprotection.com.au

Howard Leight® SmartFit®

Product Information



Product Range						
Article	Packaging Type	Part No.	Size			
Howard Leight SmartFit	1 – Pair Pack	SMF-30	N/A			

SAP Description

1011239 (SMF-30) Howard Leight SmartFit (reusable earplug)

Product Description		
Part Listing	Material	Color
1 Stem	TPE (Thermoplastic Elastomer)	Orange
2 Flange	TPE (Thermoplastic Elastomer)	Orange
3 Cord	Nylon	Blue

Nominal Dimensions		
Diameter	Length	Weight
.510"/12.954mm	1.22"/30.99mm	0.0315 oz./0.89g

Storage Case/Material	Cord Length/Material
HearPack/Polypropylene	28"/ 711.2mm/Nylon

EAN-UPC			
	UPC	EAN (BX)	EAN (CS)
SMF-30	033552011026	N/A	N/A
1011239	N/A	0335520112392	10335520112399



Howard Leight® SmartFit®

Product Information

Product Ran	ae													
Sales units	Вох	SMF-30 (100 Pairs) 1011239 (50 Pairs)	Regulatory Requirements											
Dimensions	Case	SMF-30 10 Boxes (1000pr) 1011239 10 Boxes (500pr)	Howard Leight® SmartFit® is tested according to EN 352-2:2002 at INSPEC.											
	Pallet	45 CS	Region - Europe Certificate #152											
	Вох	SMF-30: L-8"/H-7.75"/D-5.1" 1012139: L-6.75"/H-4.625"/D-4.625" SMF-30: L-25.6/"/H-8.1"/D-16.8" 1011239: L-25/"/H-5"/D-14.5"	Frequency Hz		63	125	250	500	1000	2000	4000	8000	SNR Value	
			Mean Value, dB		30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9		
			Standard Deviation, dB		6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0	30 dB	
			Assumed Protection, dB		24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9		
	Case		H = 32 dB											
			Howard Leight [®] SmartFit [®] is tested according to ANSI S3.19-1974 at Howard Leight Industries.											
			Region - USA											
	Pallet	SMF-30:L-50"/H-82"/D-44" 1012139:L-50"/H-56"/D-40"	Frequency Hz	125	250	500	1000	2000	31	50 40	00 63	300 80	000 NRR Value	
Weight	Dav	SMF-30: 1.14lb/ 2.505kg 1011239: 1.35LB/0.62kg	Mean Value, dB	29.5	28.0	30.5	31.6	33.	5 40).5 40	0.0 4	1.8 4	·2.1 25 dB	
	Box		Standard Deviation, dB	3.5	4.1	3.6	3.2	3.	5 3	3.3	4.2	5.3	4.7 25 dB	
Material	Case	SMF-30: 26lb/ 11.82kg 1011239: 14.75lb/670kg	Canada Class* A (L) *CSA Z94.2-1994											
	Pallet	SMF-30: 1182lb/ 537.27kg 1011239: 717lb/325.23kg	Howard Leight® SmartFit® (uncorded) is tested according to AS/NZS 1270:2002 at Challis Consulting Pty. Ltd.											
			Region - Australia											
	Box Case	Cardboard Corrugated Cardboard	Frequency Hz			125	250	500	1000	2000	4000	8000		
			Mean Value, dB	20.4			20.8	22.4	25.2	30.4	33.4	37.8	3	
			Standard Deviation, dB 8.0				9.3	9.0	8.6	5.9	7.6	8.0	20 dB	
			Mean-Minus-Std. Dev., dl	v., dB 12.4				13.4	16.6	24.5	25.8	29.8	3	
Customs Tai	riffs	Country of Origin	Class 3 Rating											
3926 90	Mexico		Howard Leight® SmartFit® (corded) is tested according to AS/NZS 1270:2002 at Challis Consulting Pty. Ltd.											
			Region - Australia	Stand	ardsmark				1000	0000	4000	0001		
Temperature Operations Range			Frequency Hz			125	250	500	1000	2000	4000	8000		
-26.1°C to +60°C/-15°F to + 140°F			Mean Value, dB			19.8	21.1	22.0	21.4	27.4	31.2			
			Standard Deviation, dB			12.2	10.3	9.9	9.6	8.4	8.5	11.3	3 16 dB	

Mean-Minus-Std. Dev., dB Class 2 Rating



N/A

National Stocking Number (NSN)



SLC₈₀ Value

SLC₈₀ Value

19.0

7.6 10.8

12.1

11.8

22.7

25.4