

# Product information



## SPIRA <sup>flex</sup> Tube 0.9

## SPIRA <sup>flex</sup> Tube 1.3

### SPIRA <sup>flex</sup> – the most flexible thin tube system

SPIRA <sup>flex</sup> is a thought-through concept that makes your thin tubes fittings very easy and successful. SPIRA <sup>flex</sup> fits all and matches today's needs for aesthetic and comfortable hearing solutions.



### SPIRA <sup>flex</sup> – One Fitting Kit fits all

With the new SPIRA <sup>flex</sup> fitting kit, Bernafon provides the first solution covering all fittings in one box. SPIRA <sup>flex</sup> offers aesthetic and comfortable fittings for nearly every customer with different needs and preferences. All options can be selected very easily in the acoustic screen of OASIS plus.



### SPIRA <sup>flex</sup> fits all

The unique adapter system links all Bernafon BTE hearing instruments with the SPIRA <sup>flex</sup> sound tubes. This innovative adapter system makes SPIRA <sup>flex</sup> unique and convenient for your fittings with:

**icos**

**prio**

**neo**

**sybio<sup>XT</sup>**

**SWISS<sup>+</sup>EAR<sup>2</sup>**



#### SPIRA <sup>flex</sup> Tube 0.9

Absolute discreet solution for mild to moderate hearing losses. Recommended earpiece options: open dome, tulip dome, custom tip and canal mold.



#### SPIRA <sup>flex</sup> Tube 1.3

Discreet thin sound tube solution for moderate to severe hearing losses. Recommended earpiece options: tulip dome, custom tip and canal mold.



#### Standard Earhook

Traditional acoustic system for moderate to severe hearing losses.

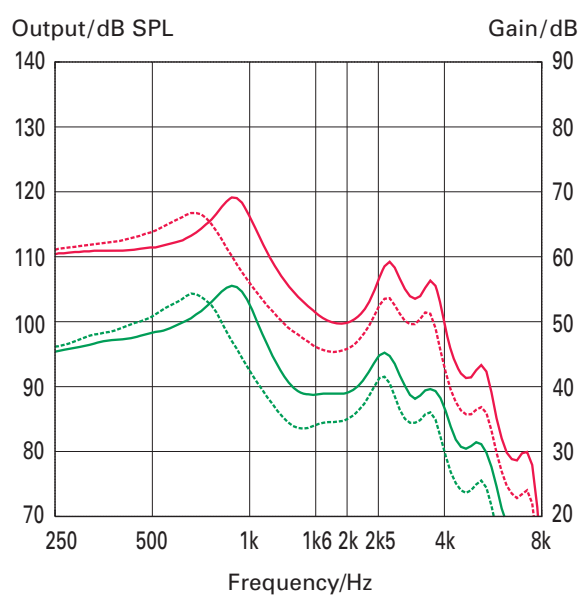
**bernafon**<sup>®</sup>  
Innovative Hearing Solutions

# SPIRA<sup>flex</sup> information

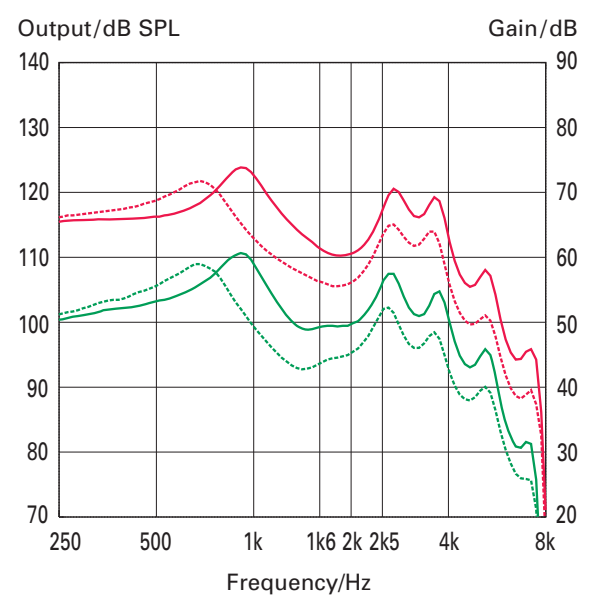
| ICOS 105 BTE DM (VC) |                        |                                |                     |                                |                     |                   |                     |     |
|----------------------|------------------------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|-----|
|                      |                        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |     |
|                      |                        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |     |
| Output               | OSPL 90, Peak          | dB SPL                         | 117                 | 122                            | 119                 | 124               | 123                 | 127 |
|                      | OSPL 90, 1600 Hz       | dB SPL                         | 96                  | 106                            | 101                 | 111               | 112                 | 121 |
|                      | HFA OSPL 90, ANSI      | dB SPL                         | 102                 | —                              | 108                 | —                 | 113                 | —   |
| Gain                 | Full-On Gain, Peak     | dB                             | 54                  | 59                             | 56                  | 61                | 60                  | 63  |
|                      | Full-On Gain, 1600 Hz  | dB                             | 34                  | 44                             | 39                  | 49                | 52                  | 58  |
|                      | HFA Full-On Gain, ANSI | dB                             | 39                  | —                              | 45                  | —                 | 53                  | —   |

For further technical information regarding configuration, please see the ICOS BTE product information.

IEC 60118-7 2cc – Coupler (IEC 60126)



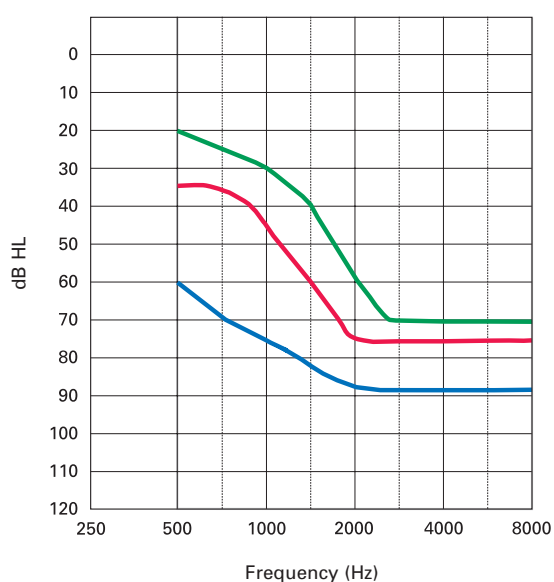
IEC 60118-0 – Earsimulator (IEC 60711)



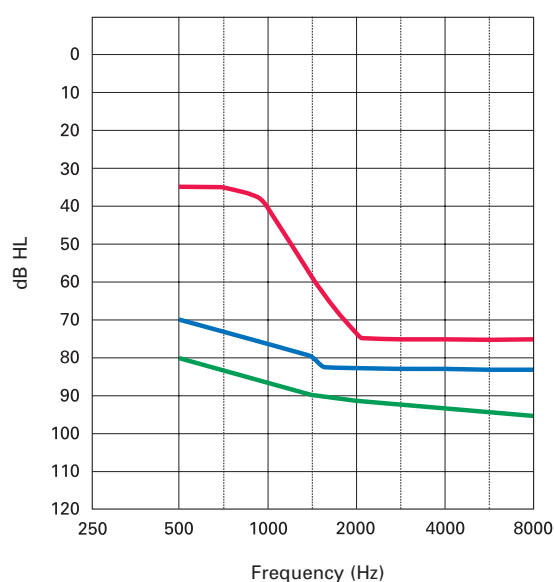
## Quick Fitting Guide

Suggested maximum fittings with different acoustic combinations

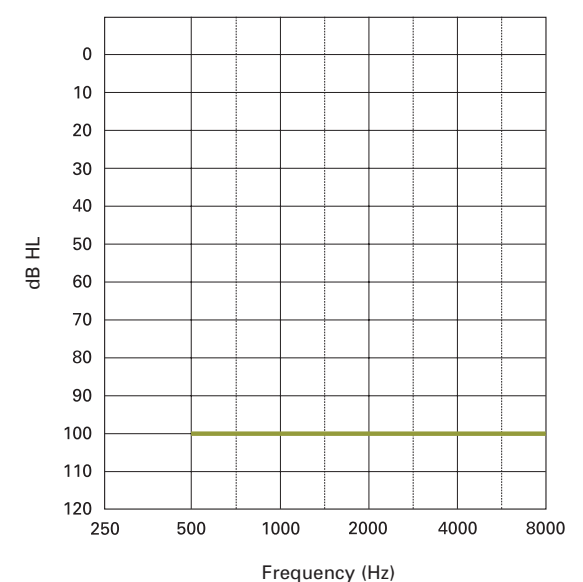
SPIRA<sup>flex</sup> tube 0.9



SPIRA<sup>flex</sup> tube 1.3



Standard Earhook



- with Open Dome
- with Tulip Dome
- with Custom Tip or Canal Mold

- with Tulip Dome
- with Canal Mold (Large vent)
- with Canal Mold occluded

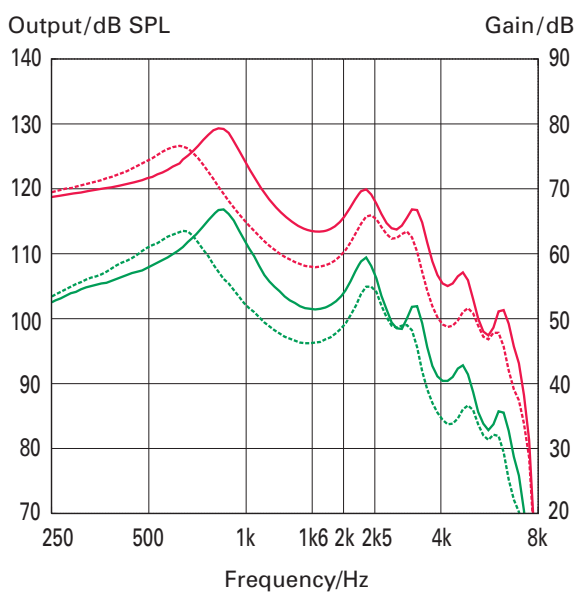
- with Ear Mo Id

# SPIRA<sup>flex</sup> information

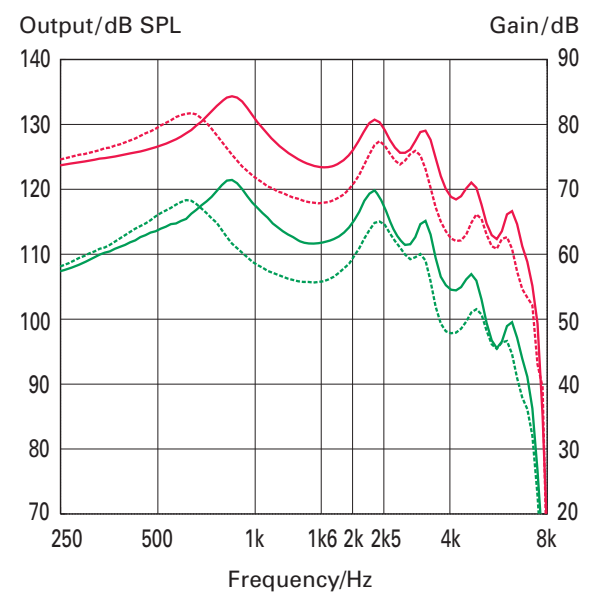
| Prio 112 BTE VC |                        |                                |                     |                                |                     |                   |                     |     |
|-----------------|------------------------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|-----|
|                 |                        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |     |
|                 |                        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |     |
| Output          | OSPL 90, Peak          | dB SPL                         | 127                 | 132                            | 129                 | 134               | 133                 | 137 |
|                 | OSPL 90, 1600 Hz       | dB SPL                         | 108                 | 118                            | 114                 | 123               | 123                 | 131 |
|                 | HFA OSPL 90, ANSI      | dB SPL                         | 113                 | —                              | 119                 | —                 | 126                 | —   |
| Gain            | Full-On Gain, Peak     | dB                             | 64                  | 68                             | 67                  | 71                | 71                  | 76  |
|                 | Full-On Gain, 1600 Hz  | dB                             | 46                  | 56                             | 52                  | 62                | 61                  | 69  |
|                 | HFA Full-On Gain, ANSI | dB                             | 51                  | —                              | 57                  | —                 | 65                  | —   |

For further technical information regarding configuration, please see the PRIO BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)



IEC 60118-0 – Earsimulator (IEC 60711)

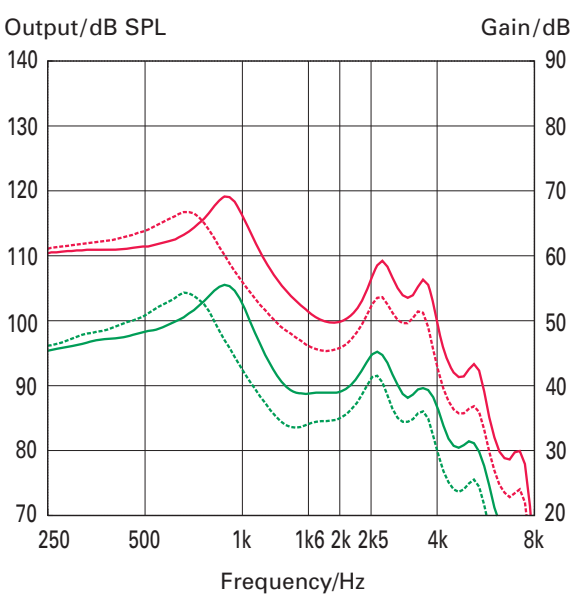


## Prio 105 BTE DM (VC)

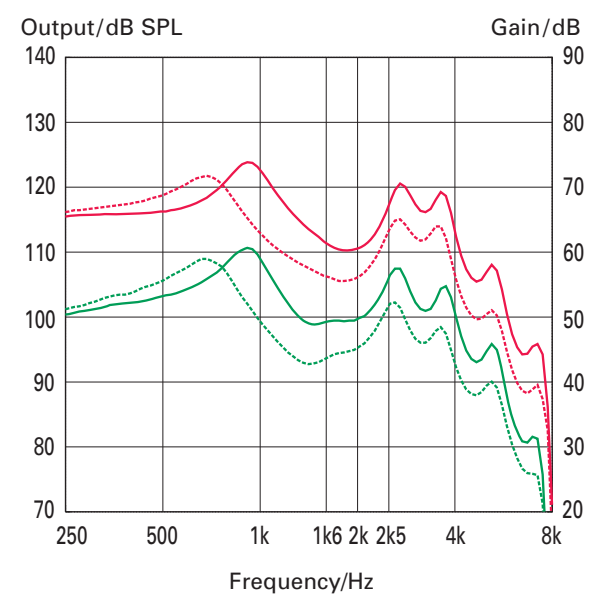
| Prio 105 BTE DM (VC) |                        |                                |                     |                                |                     |                   |                     |     |
|----------------------|------------------------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|-----|
|                      |                        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |     |
|                      |                        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |     |
| Output               | OSPL 90, Peak          | dB SPL                         | 117                 | 122                            | 119                 | 124               | 123                 | 127 |
|                      | OSPL 90, 1600 Hz       | dB SPL                         | 96                  | 106                            | 101                 | 111               | 112                 | 121 |
|                      | HFA OSPL 90, ANSI      | dB SPL                         | 102                 | —                              | 108                 | —                 | 113                 | —   |
| Gain                 | Full-On Gain, Peak     | dB                             | 54                  | 59                             | 56                  | 61                | 60                  | 63  |
|                      | Full-On Gain, 1600 Hz  | dB                             | 34                  | 44                             | 39                  | 49                | 52                  | 58  |
|                      | HFA Full-On Gain, ANSI | dB                             | 39                  | —                              | 45                  | —                 | 53                  | —   |

For further technical information regarding configuration, please see the PRIO BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)



IEC 60118-0 – Earsimulator (IEC 60711)

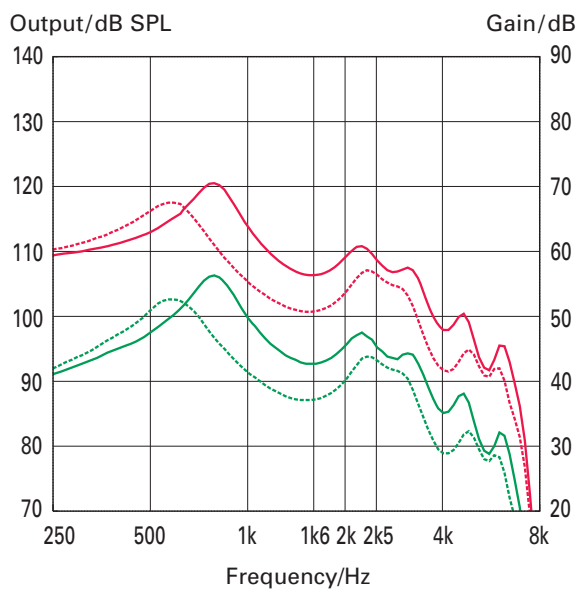


# SPIRA<sup>flex</sup> information

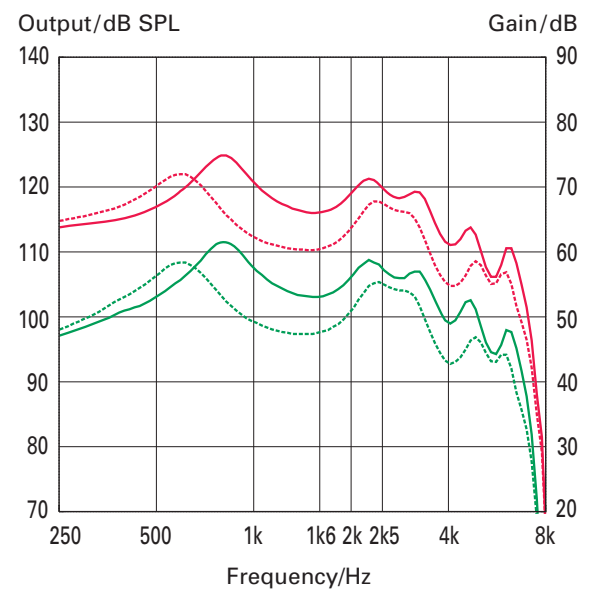
| Neo 102 BTE (VC) |                        |        |                                |                     |                                |                     |                   |                     |
|------------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                  |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                  |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output           | OSPL 90, Peak          | dB SPL | 118                            | 122                 | 121                            | 125                 | 123               | 128                 |
|                  | OSPL 90, 1600 Hz       | dB SPL | 101                            | 111                 | 106                            | 116                 | 115               | 123                 |
|                  | HFA OSPL 90, ANSI      | dB SPL | 104                            | —                   | 110                            | —                   | 118               | —                   |
| Gain             | Full-On Gain, Peak     | dB     | 53                             | 59                  | 56                             | 62                  | 60                | 64                  |
|                  | Full-On Gain, 1600 Hz  | dB     | 37                             | 48                  | 43                             | 53                  | 51                | 59                  |
|                  | HFA Full-On Gain, ANSI | dB     | 41                             | —                   | 46                             | —                   | 55                | —                   |

For further technical information regarding configuration, please see the NEO BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)



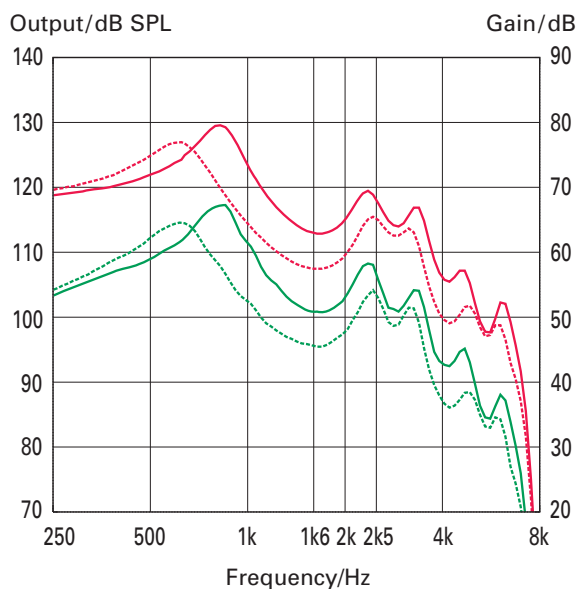
IEC 60118-0 – Earsimulator (IEC 60711)



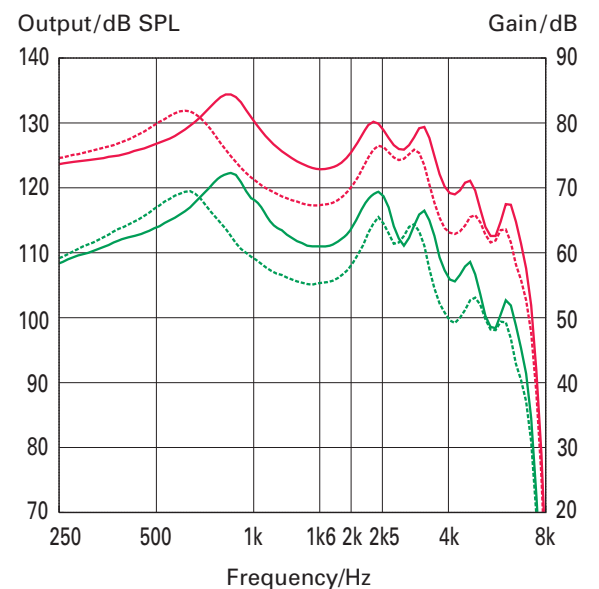
| Neo 112 BTE |                        |        |                                |                     |                                |                     |                   |                     |
|-------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|             |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|             |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output      | OSPL 90, Peak          | dB SPL | 127                            | 132                 | 130                            | 134                 | 132               | 136                 |
|             | OSPL 90, 1600 Hz       | dB SPL | 107                            | 117                 | 113                            | 123                 | 122               | 130                 |
|             | HFA OSPL 90, ANSI      | dB SPL | 112                            | —                   | 118                            | —                   | 126               | —                   |
| Gain        | Full-On Gain, Peak     | dB     | 65                             | 69                  | 67                             | 72                  | 71                | 76                  |
|             | Full-On Gain, 1600 Hz  | dB     | 46                             | 55                  | 51                             | 61                  | 60                | 68                  |
|             | HFA Full-On Gain, ANSI | dB     | 50                             | —                   | 56                             | —                   | 65                | —                   |

For further technical information regarding configuration, please see the NEO BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)



IEC 60118-0 – Earsimulator (IEC 60711)

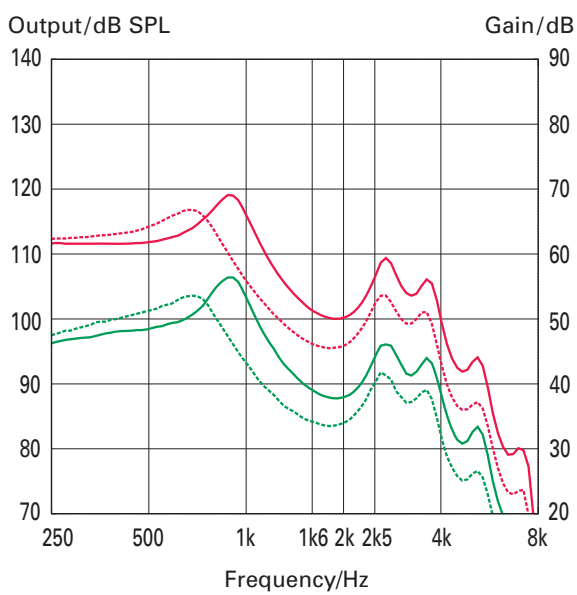


# SPIRA<sup>flex</sup> information

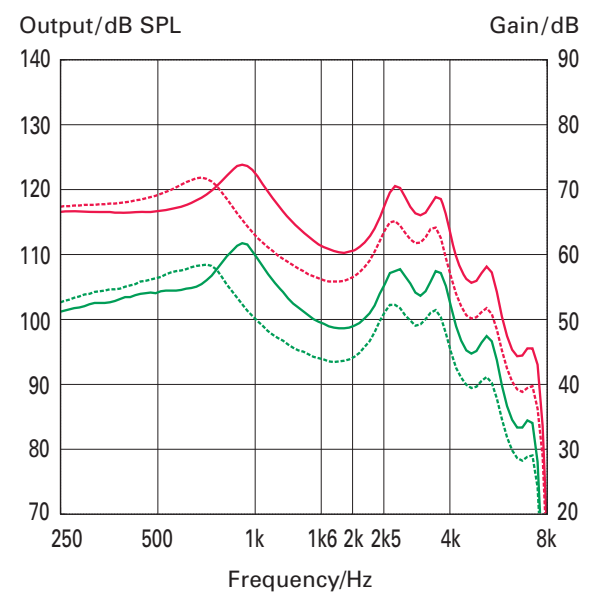
| Neo 105 BTE DM |                        |        |                                |                     |                                |                     |                   |                     |
|----------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output         | OSPL 90, Peak          | dB SPL | 117                            | 122                 | 119                            | 124                 | 123               | 127                 |
|                | OSPL 90, 1600 Hz       | dB SPL | 96                             | 106                 | 101                            | 111                 | 113               | 121                 |
|                | HFA OSPL 90, ANSI      | dB SPL | 101                            | —                   | 108                            | —                   | 113               | —                   |
| Gain           | Full-On Gain, Peak     | dB     | 54                             | 58                  | 56                             | 62                  | 60                | 66                  |
|                | Full-On Gain, 1600 Hz  | dB     | 34                             | 44                  | 39                             | 49                  | 49                | 59                  |
|                | HFA Full-On Gain, ANSI | dB     | 39                             | —                   | 46                             | —                   | 50                | —                   |

For further technical information regarding configuration, please see the NEO BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)



IEC 60118-0 – Earsimulator (IEC 60711)



## Quick Fitting Guide

Different acoustic options result in different benefits:

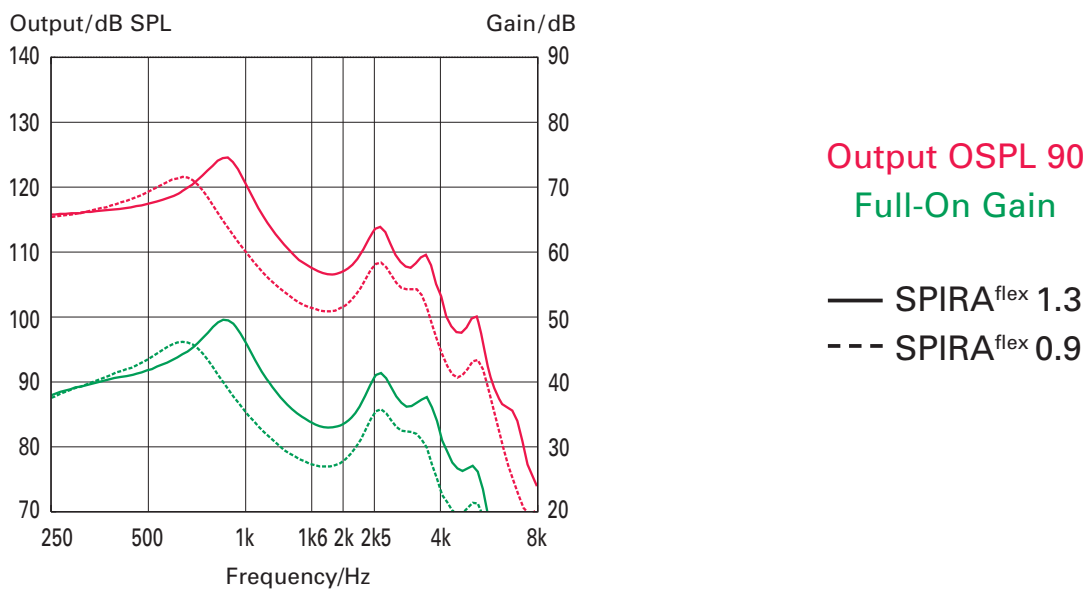
| Open Dome                 | Tulip Dome | Custom Tip | Canal Mold                | Ear Mold              |
|---------------------------|------------|------------|---------------------------|-----------------------|
|                           |            |            |                           |                       |
| short vent length < 3mm   |            |            | vent length 10mm          | vent length 20mm      |
| SPIRA <sup>flex</sup> 0.9 |            |            | SPIRA <sup>flex</sup> 1.3 | Earhook               |
|                           |            |            |                           | Maximum Fitting Range |
|                           |            |            |                           | Minimum Feedback Risk |
| Maximum Cosmetics         |            |            |                           |                       |
| Minimum Occlusion         |            |            |                           |                       |

# SPIRA<sup>flex</sup> information

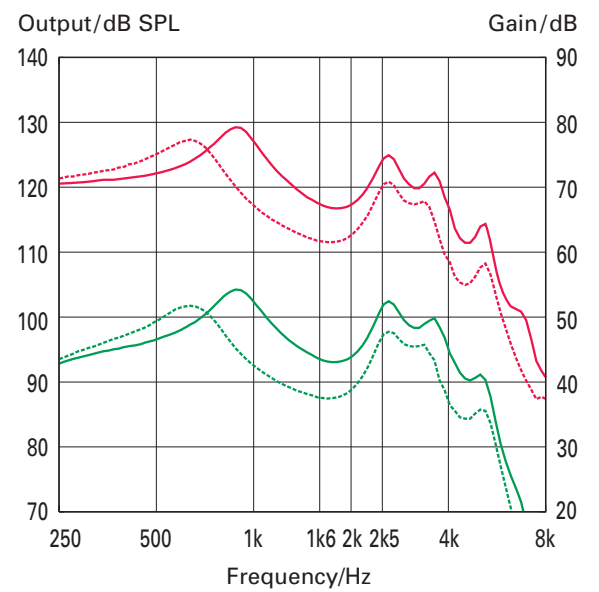
| Symbio XT 100 BTE |                        |        |                                |                     |                                |                     |                   |                     |
|-------------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                   |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                   |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output            | OSPL 90, Peak          | dB SPL | 121                            | 127                 | 124                            | 129                 | 127               | 131                 |
|                   | OSPL 90, 1600 Hz       | dB SPL | 101                            | 112                 | 107                            | 117                 | 117               | 125                 |
|                   | HFA OSPL 90, ANSI      | dB SPL | 106                            | —                   | 114                            | —                   | 119               | —                   |
| Gain              | Full-On Gain, Peak     | dB     | 46                             | 52                  | 49                             | 54                  | 52                | 61                  |
|                   | Full-On Gain, 1600 Hz  | dB     | 27                             | 38                  | 34                             | 44                  | 43                | 51                  |
|                   | HFA Full-On Gain, ANSI | dB     | 33                             | —                   | 40                             | —                   | 45                | —                   |

For further technical information regarding configuration, please see the Symbio XT BTE product Information.

**IEC 60118-7 2cc – Coupler (IEC 60126)**



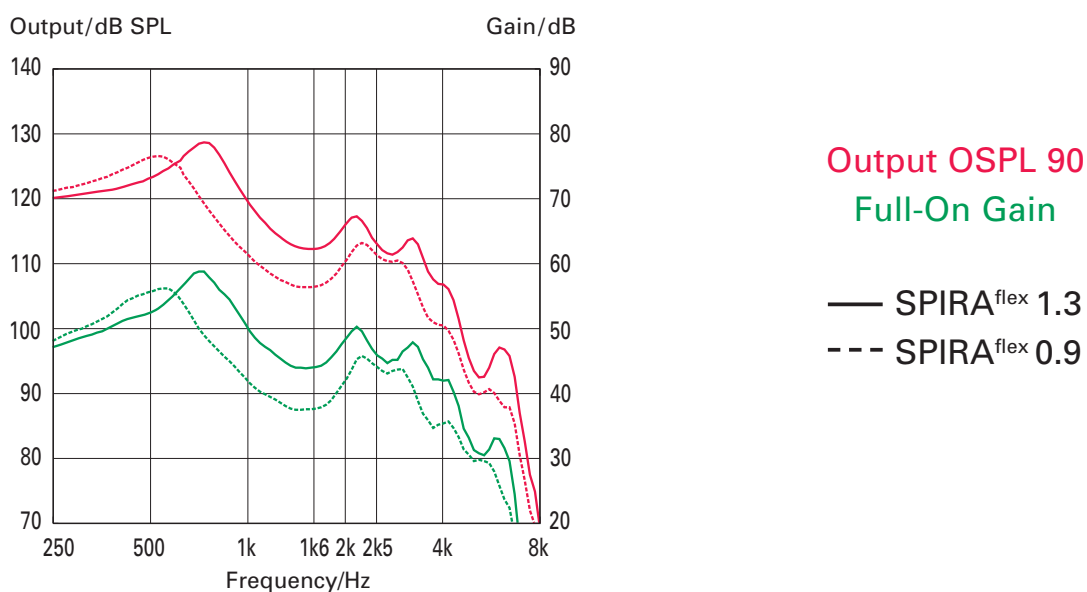
**IEC 60118-0 – Earsimulator (IEC 60711)**



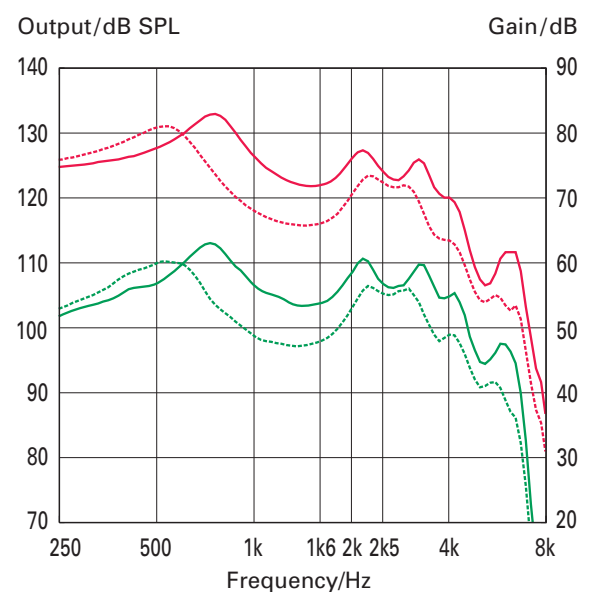
| Symbio XT 110 BTE |                        |        |                                |                     |                                |                     |                   |                     |
|-------------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                   |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                   |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output            | OSPL 90, Peak          | dB SPL | 127                            | 131                 | 129                            | 133                 | 131               | 135                 |
|                   | OSPL 90, 1600 Hz       | dB SPL | 106                            | 116                 | 112                            | 122                 | 121               | 127                 |
|                   | HFA OSPL 90, ANSI      | dB SPL | 110                            | —                   | 115                            | —                   | 125               | —                   |
| Gain              | Full-On Gain, Peak     | dB     | 56                             | 60                  | 59                             | 63                  | 62                | 68                  |
|                   | Full-On Gain, 1600 Hz  | dB     | 38                             | 48                  | 44                             | 54                  | 51                | 59                  |
|                   | HFA Full-On Gain, ANSI | dB     | 41                             | —                   | 47                             | —                   | 56                | —                   |

For further technical information regarding configuration, please see the Symbio XT BTE product Information.

**IEC 60118-7 2cc – Coupler (IEC 60126)**



**IEC 60118-0 – Earsimulator (IEC 60711)**

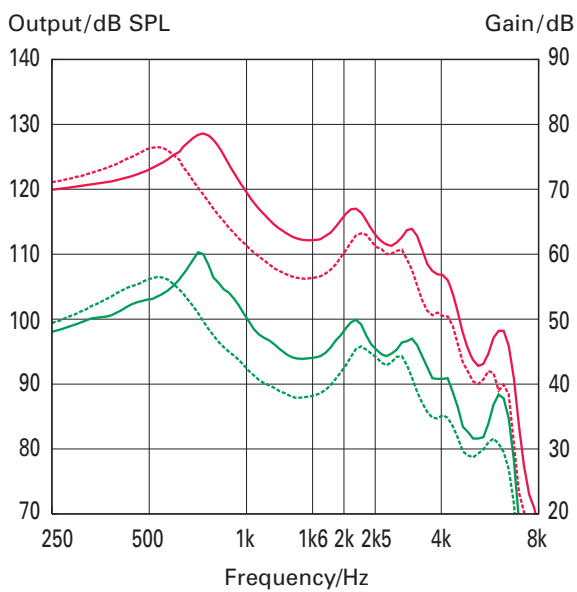


# SPIRA<sup>flex</sup> information

| Symbio XT 115 BTE DM |                        |        |                                |                     |                                |                     |                   |                     |
|----------------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                      |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                      |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output               | OSPL 90, Peak          | dB SPL | 126                            | 131                 | 129                            | 133                 | 131               | 134                 |
|                      | OSPL 90, 1600 Hz       | dB SPL | 106                            | 116                 | 112                            | 122                 | 119               | 127                 |
|                      | HFA OSPL 90, ANSI      | dB SPL | 110                            | —                   | 115                            | —                   | 124               | —                   |
| Gain                 | Full-On Gain, Peak     | dB     | 56                             | 61                  | 60                             | 65                  | 62                | 67                  |
|                      | Full-On Gain, 1600 Hz  | dB     | 38                             | 48                  | 44                             | 54                  | 51                | 58                  |
|                      | HFA Full-On Gain, ANSI | dB     | 42                             | —                   | 47                             | —                   | 56                | —                   |

For further technical information regarding configuration, please see the Symbio XT BTE product Information.

IEC 60118-7 2cc – Coupler (IEC 60126)

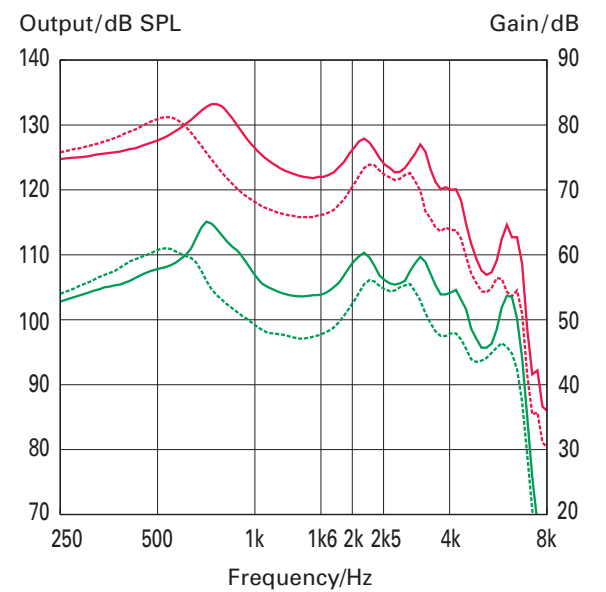


Output OSPL 90  
Full-On Gain

— SPIRA<sup>flex</sup> 1.3  
--- SPIRA<sup>flex</sup> 0.9



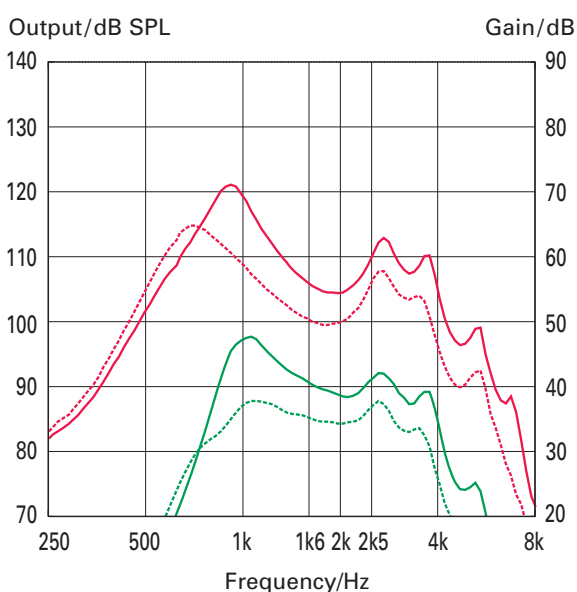
IEC 60118-0 – Earsimulator (IEC 60711)



| SwissEar 106 BTE D |                        |        |                                |                     |                                |                     |                   |                     |
|--------------------|------------------------|--------|--------------------------------|---------------------|--------------------------------|---------------------|-------------------|---------------------|
|                    |                        |        | SPIRA <sup>flex</sup> Tube 0.9 |                     | SPIRA <sup>flex</sup> Tube 1.3 |                     | Earhook           |                     |
|                    |                        |        | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc)              | IEC 60118-0 (Ears.) | IEC 60118-7 (2cc) | IEC 60118-0 (Ears.) |
| Output             | OSPL 90, Peak          | dB SPL | 115                            | 119                 | 121                            | 126                 | 128               | 131                 |
|                    | OSPL 90, 1600 Hz       | dB SPL | 100                            | 110                 | 106                            | 115                 | 117               | 125                 |
|                    | HFA OSPL 90, ANSI      | dB SPL | 105                            | —                   | 112                            | —                   | 119               | —                   |
| Gain               | Full-On Gain, Peak     | dB     | 38                             | 48                  | 48                             | 54                  | 61                | 64                  |
|                    | Full-On Gain, 1600 Hz  | dB     | 35                             | 44                  | 41                             | 50                  | 53                | 60                  |
|                    | HFA Full-On Gain, ANSI | dB     | 36                             | —                   | 43                             | —                   | 50                | —                   |

For further technical information regarding configuration, please see the SwissEar BTE product Information.

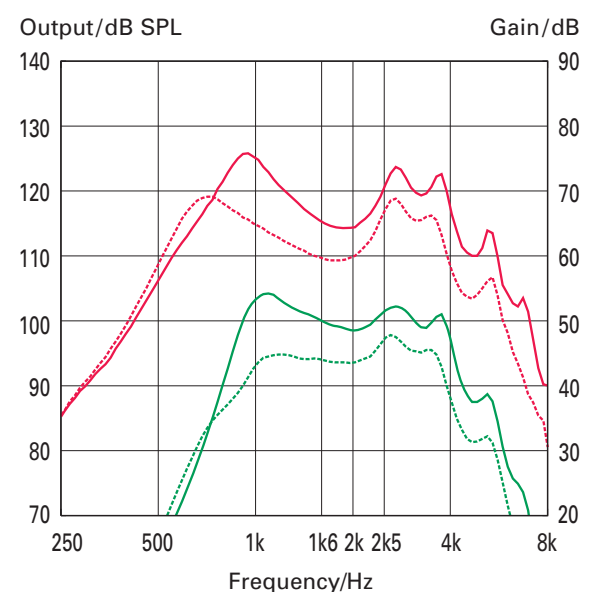
IEC 60118-7 2cc – Coupler (IEC 60126)



Output OSPL 90  
Full-On Gain

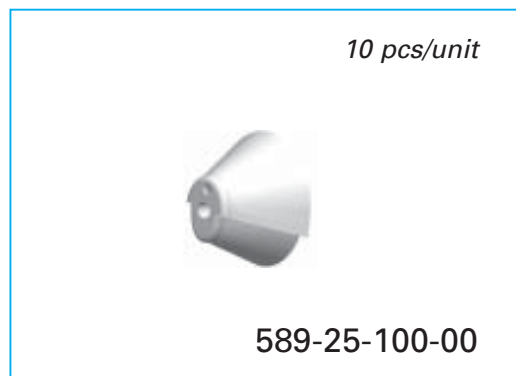
— SPIRA<sup>flex</sup> 1.3  
--- SPIRA<sup>flex</sup> 0.9

IEC 60118-0 – Earsimulator (IEC 60711)

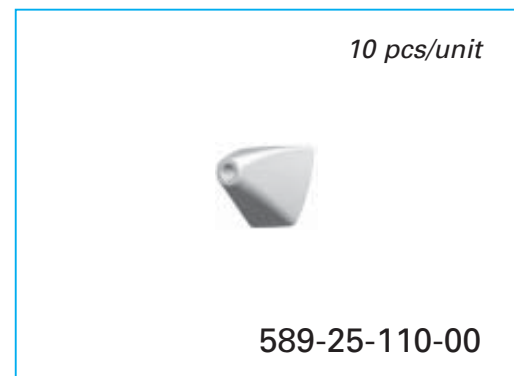


# Spare parts for the Fitting Kit

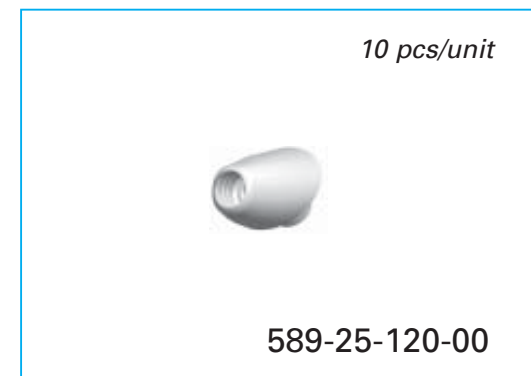
## Tulip Dome



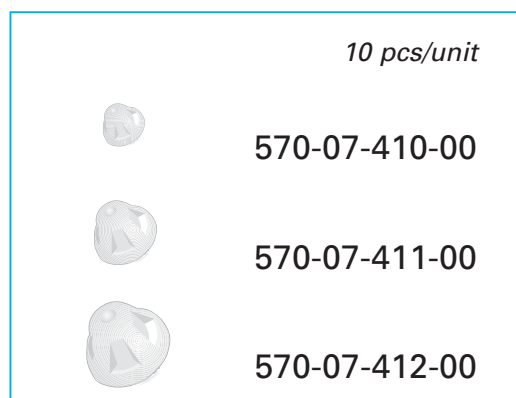
## SPIRA<sup>flex</sup> adapter #1



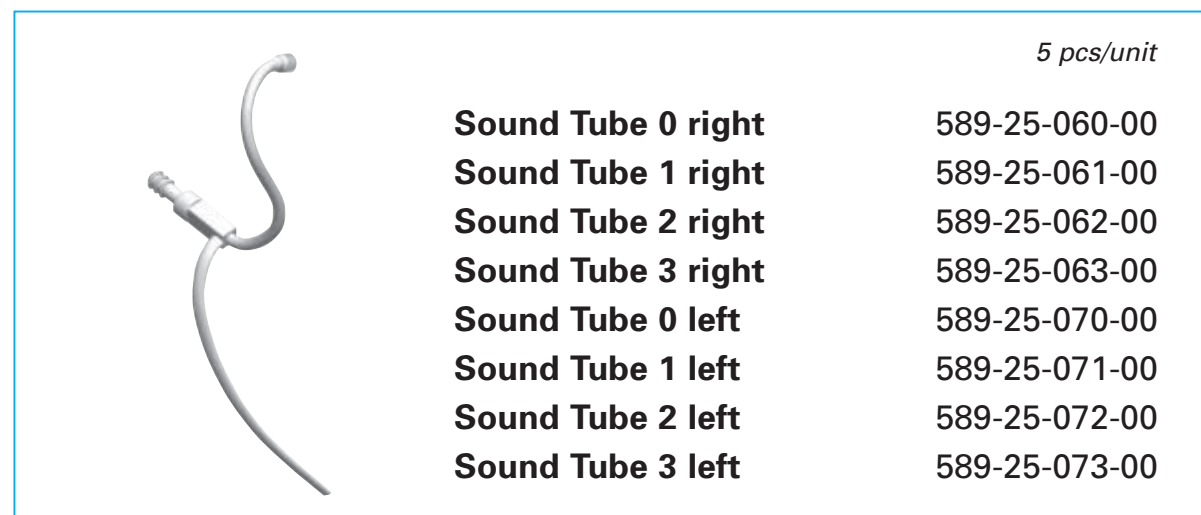
## SPIRA<sup>flex</sup> adapter #2



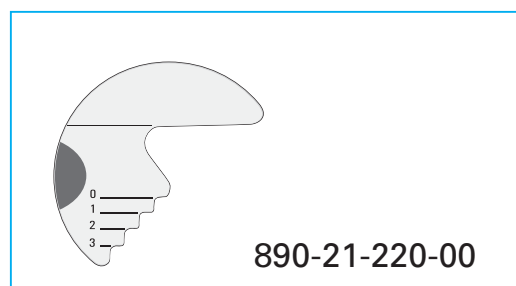
## Ear dome small/medium/large



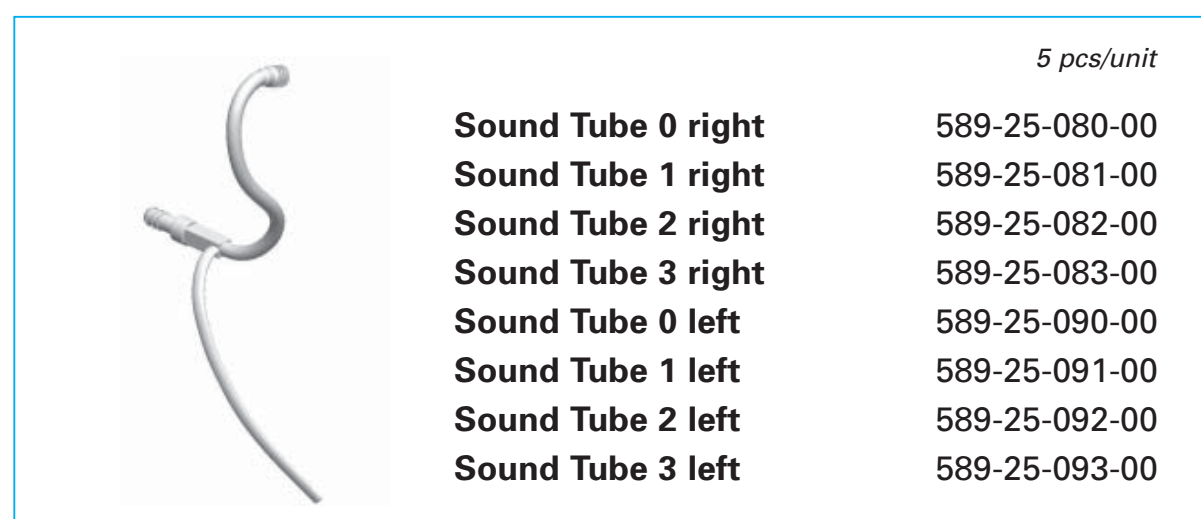
## SPIRA<sup>flex</sup> tube 0.9



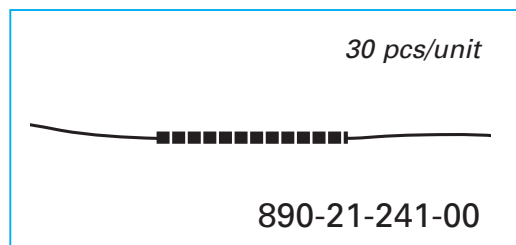
## Measurement tool



## SPIRA<sup>flex</sup> tube 1.3



## Cleaning tool



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