Silk Nx

Technical Data

7Nx 5Nx 3Nx 2Nx 1Nx DNx
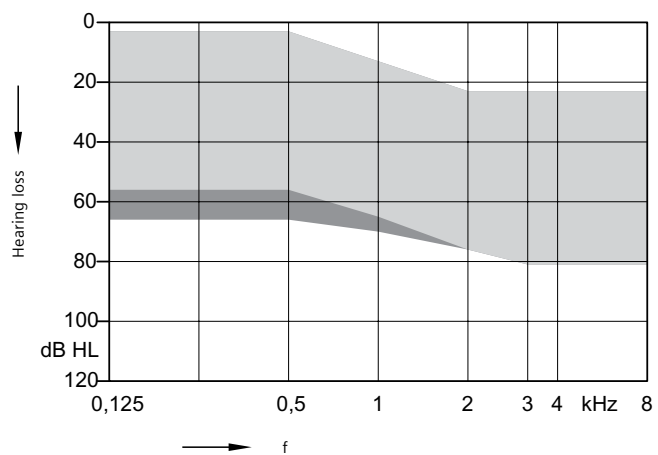

- 60 dB / 125 dB SPL
  (ear simulator)
- 50 dB / 113 dB SPL
  (2 ccm coupler)

Data sheet also applicable for Silk sDemo DNx

Silk Nx | Technical Data

	2 ccm coupler	Ear simulator
Output sound pressure level		
OSPL 90 at 1.6 kHz	–	117 dB SPL
OSPL 90 (Peak)	113 dB SPL	125 dB SPL
HFA-OSPL 90	109 dB SPL	–
Gain		
FOG at 1.6 kHz	–	53 dB
FOG (Peak)	50 dB	60 dB
HFA-FOG	46 dB	–
Reference test gain	33 dB	42 dB
Frequency, noise and directivity		
Frequency range 7Nx 5Nx / 3Nx / 2Nx / 1Nx	100-7800 Hz 100-7800 Hz	100-8700 Hz 100-8100 Hz
Equivalent input noise	18 dB SPL	18 dB SPL
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2 / 2 / 2 / 1 %	4 / 5 / 5 / – %
Tinnitus noiser broadband	70 dB SPL	–
AI-DI	–	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	–
HFA MASL (1 mA/m)	–	–
HFA SPLITS (left/right)	–	–
RSETS (left/right)	–	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.1 mA	
Battery life (cell zinc air)	~60 h	
Battery life (rechargeable)	–	
IRIL IEC 60118-13:2016 Ed. 4.0		
700-960 MHz (rating)	user	
1400-2000 MHz (rating)	user	
2000-2700 MHz (rating)	user	
ANSI C63.19-2011		
800-950 MHz (rating)	M4	
1600-2500 MHz (rating)	M4	

Silk Nx | Fitting Range

Chart axes:
- Y-axis: Hearing loss — 0, 20, 40, 60, 80, 100, 120 dB HL
- X-axis: f — 0,125 0,5 1 2 3 4 kHz 8

Legend:
Vented Click Sleeve
Closed Click Sleeve

Silk Nx | Basic Data

2 ccm coupler

Max. Output sound pressure level (L$_I$ = 90 dB)
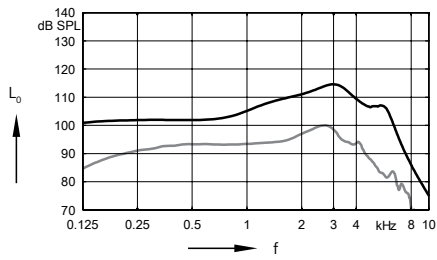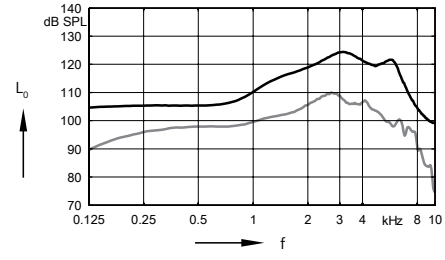
Full on gain (L$_I$ = 50 dB)
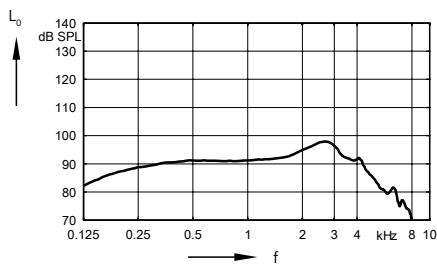

Frequency response (L$_I$ = 60 dB)

Ear simulator

Max. Output sound pressure level (L$_I$ = 90 dB)

Full on gain (L$_I$ = 50 dB)
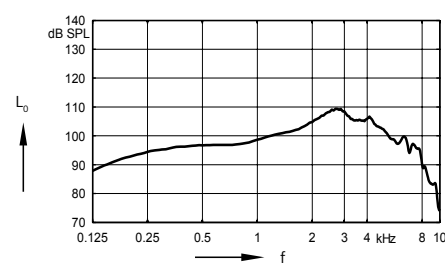
Basic acoustic response (L$_I$ = 60 dB)

Silk Nx │ Features and Accessories

	7Nx	5Nx	3Nx	2Nx	1Nx
Audiology					
Own Voice Processing (OVP) [1]	—	—	—	—	—
3D Classifier	—	—	—	—	—
Signal processing (channels) / Gain/MPO (handles)	48 / 20	32 / 16	24 / 12	16 / 8	16 / 8
Hearing programs	6	6	6	4	4
Sound Clarity					
HD Spatial	—	—	—	—	—
Extended dynamic range	●	●	●	●	●
Extended bandwidth	●	—	—	—	—
EchoShield	●	—	—	—	—
HD Music	3	1	—	—	—
eWindScreen binaural [1] [2]	—	—	—	—	—
eWindScreen	●	●	●	●	—
Noise Management					
Speech and noise management (steps)	7	5	3	3	1
SoundSmoothing (steps)	3	3	1	1	—
Directional speech enhancement (steps)	1	1	—	—	—
Feedback cancellation	●	●	●	●	●
Speech Quality					
Directionality					
Binaural OneMic Directionality [1]	●	●	●	—	—
Narrow Directionality [1]	—	—	—	—	—
Spatial SpeechFocus [1] [3]	—	—	—	—	—
SpeechFocus	—	—	—	—	—
TwinPhone [1]	●	●	●	—	—
Frequency compression	●	●	●	●	●
Direct Streaming					
Made for iPhone	—	—	—	—	—
Adaptive Streaming Volume [4]	—	—	—	—	—
Tinnitus					
Notched Noise Therapy	●	●	●	—	—
Tinnitus noiser	●	●	●	●	—
Fitting					
Smart Optimizer and Data Logging	●	●	●	●	●
Acclimatization manager	●	●	●	●	●
Performance Guide	●	●	●	●	●
Insitugram	●	●	●	●	●
Learning (classes)	6	3	1	—	—
TeleCare					
Basic Remote Tuning	●	●	●	●	●
Full Live Remote Tuning	—	—	—	—	—

● available   — not available

[1] req. bilateral fitting
[2] not available in the universal program on 5Nx
[3] for 5Nx in Stroll Program or with Spatial Configurator only
[4] streaming only

Silk Nx | Features and Accessories

	7Nx / 5Nx / 3Nx	2Nx / 1Nx
Style Specific Features		
Ingress Protection Rating	—	—
Charging contacts	—	—
Battery Size	10	10
Battery door on/off function	●	●
Nanocoated housing	—	—
e2e wireless 3.0	●	●
User controls coupling via e2e	—	—
Wireless programming	●	●
Instrument configurations		
Flat cover	—	—
Rotary volume control	—	—
Push button	—	—
Rocker switch	—	—
Color conversion kit	—	—
Battery door – direct audio input	—	—
Battery door – child lock	—	—
Small earhook	—	—
Programming Accessories		
ConnexxAir / ConnexxLink	● / —	● / —
NoahLink wireless	—	—
Programming adapter / cable	Flex connector	Flex connector
Accessories		
miniPocket	○	○
CROS Silk Nx	○	—
CROS Pure 312 Nx	—	—
CROS Pure Charge&Go Nx	—	—
StreamLine TV	—	—
StreamLine Mic	—	—
App		
myControl App	—	—
touchControl App	○	○

● available   ○ optional   — not available

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

► All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
► All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
► Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
► Figures representing Equivalent Input Noise incorporate a moderate expansion.
► Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil.
► Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
► The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
► The battery life is based on first fit settings using 60% of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
► Extended frequency range up to 12 kHz for 7Nx devices only.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

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⚠ **Warning**

Choking hazard posed by small parts.
► This instrument is not intended for the fitting of infants, children under 3 years and persons of mental incapacity.