

Gallet F1XF Hearing Protection

Communication Accessories Technical Datasheet



Flexible Microphone

Specification	Description
OVERVIEW	Active Hearing Protection headset with built-in communication capabilities <ul style="list-style-type: none">Two ear muffs with padding and noise attenuation foamEar cup height adjustment system for optimal wearing positionFlexible microphone attached to the left muff
INTEROPERABILITY	<ul style="list-style-type: none">Operates with an MSA Push-to-Talk (PTT) module or MSA HandyCom enabling connection to the PMR radioConnection through a NEXUS type plug with MSA HandyCom RSM
TECHNICAL SPECIFICATIONS	<ul style="list-style-type: none">Microphone: Noise cancelling electret, 100Hz-10kHz, sensitivity -61 dB (nominal) at 50% humidityLoudspeaker: 32 Ω, 100Hz-20kHz, max. power 100mWMaterial: Cup: PC/ABS, Cushion: Synthetic leatherDownload cable: Fire retardant, shielded cableBattery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions)Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, max input 110dB S.P.LOperation temperature: -20°C to +65°C, humidity <98%
WEIGHT	390g ± 10g (including batteries)
TESTING / APPROVALS	<ul style="list-style-type: none">EMC performance: ESD/EMI: 10 V/mFully watertight – equivalent to IP67SNR value: 26 dB; H=26, M=23, L=18 (attenuation data in appendix)
ORDERING INFORMATION	Part number (when ordered separately from the helmet): <ul style="list-style-type: none">GAY30211222123000X – Headset, GALLET F1XF, Hearing Protection, boom microphone, NEXUS plug



Headset mounted inside the helmet



Headset general view

WHEN YOU GO IN, WE GO IN WITH YOU.

Bone Conductive Microphone

Specification	Description
OVERVIEW	Active Hearing Protection headset with built-in communication capabilities <ul style="list-style-type: none"> Two ear muffs with padding and noise attenuation foam Built-in, level dependant function with amplification volume adjustment Ear cup height adjustment system for optimal wearing position Flexible microphone attached to the left muff Download Cable with anti-tearing, NEXUS connecting plug
INTEROPERABILITY	<ul style="list-style-type: none"> Operates with various Push-to-Talk (PTT) modules, such as MSA HandyCom, enabling connection to the PMR radio Connection through a NEXUS type plug
TECHNICAL SPECIFICATIONS	<ul style="list-style-type: none"> Microphone: Accelerometer, 100 Hz – 10 kHz, Sensitivity 1V / 0.5G Loudspeaker: 32 Ω, 100Hz-20kHz, max. power 100mW Material: Cup: PC/ABS, Cushion: Synthetic leather Download cable: Fire retardant, shielded cable Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions) Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, max input 110dB S.P.L Operation temperature: -20°C to +65°C, humidity <98%
WEIGHT	370g ± 10g (including batteries)
TESTING / APPROVALS	<ul style="list-style-type: none"> EMC performance: ESD/EMI: 10 V/m Fully watertight – equivalent to IP67 SNR value: 26 dB; H=26, M=23, L=18 (attenuation data in appendix)
ORDERING INFORMATION	Part number (when ordered separately from the helmet): <ul style="list-style-type: none"> GAY30103222123000X – Headset, GALLET F1XF, Hearing Protection, bone conductive



Gallet F1XF Hearing Protection Bone Microphone

Appendix: Attenuation Data

The tests were made for the 3 following references:

- GA010002D3X: Hearing Protection with boom microphone (replaced by GAY30211222123000X)
- GA010002C3X – Hearing protection with bone conductive microphone (replaced by GAY30103222123000X)

When we made the tests, the hearing protection had different part numbers (with LEMO plug) but the ear muffs are the same so the values of attenuation data for GAY30211222123000X and GAY30103222123000X should be comparable with GA010002D3X and GA010002C3X

Tested to EN 352-3:2002, §4.3.12; EN 13819-1, § 4.1.3.10, EN 13819-2, §4.2

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean attenuation, Mf (dB)	18,4	18,4	17,9	24,4	28,5	26,8	48,6	49,6
Stand. Deviation, sf (dB)	3,6	3,8	2,8	2,7	2,8	4,0	2,4	2,4
APV (Mf - sf) (dB)	14,8	14,6	15,1	21,7	25,7	22,8	46,2	47,2

SNR=26 dB; H=26 dB, M=23 dB, L=18 dB



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