

### Flexible Microphone Headset, Gallet F1 XF helmet

Specification	Description	
Overview	<ul> <li>Communication headset for integration in Gallet F1 XF fire helmet</li> <li>One or two loudspeakers, in plastic housing with mounting clips.</li> <li>Flexible microphone, adjustable in length (80 mm) to optimize position in front of the mouth or in front of the speech diaphragm (BA face piece)</li> <li>Downlead Cable with anti-tearing, LEMO connecting plug (green cover).</li> </ul>	
Interoperability	<ul> <li>Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through an anti-tearing LEMO plug with color codification.</li> <li>PTT module with Yellow connector: non ATEX system</li> <li>PTT module with Green connector: ATEX system (for use with approved ATEX radios only)</li> </ul>	
Technical specifications	<ul> <li>Microphone: noise cancelling Electret, 100Hz-10kHz, distortion &lt; 3%</li> <li>Loudspeaker: 32 Ω, 20 Hz – 3 kHz, max power 100 mW</li> <li>Amplifier: adjustable gain (0 to 26 dB), 300 Hz – 3 kHz Nominal output 50 mV RMS, Harmonic distortion 5%</li> <li>Down lead Cable: Fire retardant, shielded cable</li> <li>Housing: Polyamide (PA6), Fire resistant (V0)</li> <li>Operation Temperature: -20°C to +65°C, humidity &lt; 98%</li> </ul>	
Weight	<ul> <li>Standard version (1 speaker): 100 ± 10g</li> <li>Premium version (2 speakers): 125 ± 10g</li> </ul>	
Approval	<ul> <li>EMC performance: ESD/EMI: 10 V/m</li> <li>Ingress Protection testing: IP56 (tested inside the helmet)</li> <li>ATEX (when used with an ATEX certified PTT module)</li> <li>ATEX level: II 2G Ex ia IIC T4</li> </ul>	
Ordering Information	<ul> <li>Part number (when ordered separately from the helmet)</li> <li>GA010002B3X – Headset, Gallet F1XF, Flexible Microphone 1 Speaker</li> <li>GA010002B3AX – Headset, Gallet F1XF, Flexible Microphone 2 Speakers</li> </ul>	
Hondrot 1 appellar	Hondoot 2 apportors	Microphone standby position
Headset, 1 speaker	Headset, 2 speakers	Microphone standby position
Headset, in-use position	Headset, standby position	Connecting plug, headset to PTT



# Bone conductive Microphone Headset, Gallet F1 XF helmet

Specification	Descrip	tion
Overview	<ul> <li>Communication headset for integration in Gallet F1 XF helmet</li> <li>One or two loudspeakers, in housing with mounting clips.</li> <li>Bone conductive microphone, inserted in the front headband padding.</li> <li>Downlead Cable with anti-tearing, LEMO connecting plug (blue cover).</li> </ul>	
Interoperability	<ul> <li>Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through an anti-tearing LEMO plug with color codification.</li> <li>PTT module with Red connector: non ATEX system</li> <li>PTT module with Blue connector: ATEX system (for use with approved ATEX radios only)</li> </ul>	
Technical specifications	<ul> <li>Microphone: Accelerometer, 20 Hz – 20 kHz, Sensitivity 1 mV / mG</li> <li>Loudspeaker: 32 Ω, 20 Hz – 3 kHz, max power 100 mW</li> <li>Down lead Cable: Fire retardant, shielded cable</li> <li>Housing: Polyamide (PA6), Fire resistant (V0)</li> <li>Operation Temperature: -20°C to +65°C, humidity &lt; 98%</li> </ul>	
Weight	<ul> <li>Standard version (1 speaker): 75 ± 1</li> <li>Premium version (2 speakers): 100 ±</li> </ul>	0
Approval	<ul> <li>EMC performance: ESD/EMI: 10 V/m</li> <li>Ingress Protection testing: IP56 (tested inside the helmet)</li> <li>ATEX (when used with an ATEX certified PTT module)</li> <li>ATEX level: II 2G Ex ia IIC T4</li> </ul>	
Ordering Information	<ul> <li>Part number (when ordered separately from the helmet)</li> <li>GA010002A3X – Headset, Gallet F1XF, Bone conductive Microphone 1 Speaker</li> <li>GA010002A3AX – Headset, Gallet F1XF, Bone conductive Microphone 2 Speakers</li> </ul>	
Headset, 1 speaker	Headset, 2 speakers	Weight         Weight<
Bone conductive sensor (inserted in headband padding)	Left Speaker module (optional)	Connecting plug, headset to PTT



### Push-to-Talk Module

Specification	Description	
Overview	<ul> <li>Push-to-Talk Module (PTT) including:</li> <li>Housing with large size, easy to handle push button</li> <li>Downlead cable to the PMR radio with connection plug</li> <li>Headset connection cable with anti-tearing LEMO plug</li> <li>Belt / Strap attachment through clip of pincer</li> </ul>	
Interoperability	perates with an MSA Headset, in particular helmet mounted headsets for allet F1 XF fire helmets. PTT with Yellow connector: for flexible microphone headsets PTT with Green connector: for flexible microphone headset, ATEX (for use with ATEX radios only) PTT with Red connector: for Bone conductive microphone headsets PTT with Blue connector: for Bone conductive microphone headset, ATEX (for use with ATEX radios only)	
Technical specifications	<ul> <li>Amplifier: Adjustable gain (0-26 dB), bandwidth 300Hz-3kHz</li> <li>Nominal output: 50mV RMS, harmonic distortion 5%</li> <li>Housing Material: High Temperature Thermoplastic (PA)</li> <li>Operation Temperature: -20°C to +65°C, humidity &lt; 98%</li> </ul>	
Weight	<ul> <li>Pincer version: approx. 200 g</li> <li>Clip Version: approx. 160 g</li> <li>Note: Weight may vary depending on radio plug and cable type</li> </ul>	
Approval	EMC performance: ESD/EMI: 10 V/m On selected models, compliance to ATEX directive ATEX (when used with an ATEX certified PTT module, blue or green plug) ATEX level: II 2G Ex ia IIC T4	
Ordering Information	Ordering information depends on type of headset and type of radio. <i>Please consult MSA for exact configuration.</i>	
PTT Module, with headset plug (left) and radio plug (right) – Shown with Motorola GP 3x0 series connector		
PTT module, pincer version (also available with belt clip		

Gallet F1 XF Communication Accessories Non contractual – Subject to change without notice



# Hearing Protection with flexible Microphone

Specification	Description	
Overview	<ul> <li>Active Hearing Protection headset with built-in communication capabilities, including:</li> <li>Two ear muffs with padding and noise attenuation foam</li> <li>Ear cup height adjustment system for optimal wearing position</li> <li>Flexible microphone attached to the left muff</li> <li>Downlead Cable with anti-tearing, LEMO connecting plug (green).</li> </ul>	
Interoperability	<ul> <li>Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through LEMO plug with color codification.</li> <li>PTT module with Yellow connector: non ATEX system</li> <li>PTT module with Green connector: ATEX system (for use with approved ATEX radios only)</li> </ul>	
Technical specifications	<ul> <li>Microphone: Noise cancelling electret, 100Hz-10kHz, sensitivity -61 dB (nominal) at 50% humidity</li> <li>Loudspeaker: 32 Ω, 100Hz-20kHz, max power 100mW</li> <li>Material: Cup: PC/ABS, Cushion: Synthetic leather</li> <li>Down lead Cable: Fire retardant, shielded cable</li> <li>Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions),</li> <li>Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, Max input 110dB S.P.L</li> <li>Operation Temperature: -20°C to +65°C, humidity &lt; 98%</li> </ul>	
Weight	390 g ± 10g (including batteries)	
Approval	<ul> <li>EMC performance: ESD/EMI: 10 V/m</li> <li>Fully watertight – equivalent to IP67</li> <li>ATEX (when used with an ATEX certified PTT module)</li> <li>ATEX level: II 2G Ex ia IIC T4</li> <li>SNR value : 26 dB / H=26 / M=23 / L=18</li> </ul>	
Ordering Information	<ul> <li>Part number (<i>when ordered separately from the helmet</i>)</li> <li>GA010002D3X – Headset, Gallet F1XF, Hearing Protection, boom microphone</li> </ul>	
Headset general view	Headset mounted inside the helmet	Connecting plug, headset to PTT
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Ambient sound microphone	Battery compartment	Button (on/off and Volume +/-)

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# Hearing Protection with Bone conductive Microphone

Specification	Description	
Overview	<ul> <li>Active Hearing Protection headset with built-in communication capabilities, including:</li> <li>Two ear muffs with padding and noise attenuation foam</li> <li>Built-in, level dependent function with amplification volume adjustment</li> <li>Ear cup height adjustment system for optimal wearing position</li> <li>Flexible microphone attached to the left muff</li> <li>Downlead Cable with anti-tearing, LEMO connecting plug (blue).</li> </ul>	
Interoperability	<ul> <li>Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through LEMO plug with color codification.</li> <li>PTT module with red connector: non ATEX system</li> <li>PTT module with blue connector: ATEX system (for use with approved ATEX radios only)</li> </ul>	
Technical specifications	<ul> <li>Microphone: Accelerometer, 20 Hz – 20 kHz, Sensitivity 1 mV / mG</li> <li>Loudspeaker: 32 Ω, 100Hz-20kHz, max power 100mW</li> <li>Material: Cup: PC/ABS, Cushion: Synthetic leather</li> <li>Down lead Cable: Fire retardant, shielded cable</li> <li>Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions),</li> <li>Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, Max input 110dB S.P.L</li> </ul>	
Weight	370 g ± 10g (including batteries)	
Approval	<ul> <li>EMC performance: ESD/EMI: 10 V/m</li> <li>Fully watertight – equivalent to IP67</li> <li>ATEX (when used with an ATEX certified PTT module)</li> <li>ATEX level: II 2G Ex ia IIC T4</li> <li>SNR value : 26 dB / H=26 / M=23 / L=18</li> </ul>	
Ordering Information	<ul> <li>Part number (when ordered separately from the helmet)</li> <li>GA010002C3X – Headset, Gallet F1XF, Hearing Protection, bone conductive</li> </ul>	
Headset general view	Headset mounted in helmet	Connecting plug, headset to PTT
		Connecting plug, neadset to FTT
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Ambient sound microphone	Battery compartment	Button (on/off and Volume +/-)

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# Hearing Protection with level dependant function

Specification	Desc	ription
Overview	<ul> <li>Active circum aural headset enabling surroundings but still protect the hear</li> <li>Two ear muffs with padding and</li> <li>Built-in, level dependent function</li> <li>Ear cup height adjustment syster</li> </ul>	ing, including: noise attenuation foam with amplification volume adjustment
Technical specifications		
Weight	330 g ± 10g (including batteries)	
Approval	<ul> <li>EMC performance: ESD/EMI: 10</li> <li>Fully watertight – equivalent to IP</li> <li>ATEX Approval according to dire</li> <li>ATEX level: II 2G Ex ia IIC T4</li> <li>SNR value : 26 dB / H=26 / M=23</li> </ul>	267 ctive
Ordering Information	<ul> <li>Part number (when ordered separate</li> <li>GA010002E3X – Headset, Gallet F1.</li> </ul>	, , , , , , , , , , , , , , , , , , ,
Headset general view	Headset mounted in helmet	
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Ambient sound microphone	Battery compartment	Button (on/off and Volume +/-)