







Gallet F1 XF

Communication Accessories – Technical specifications
Rev 3 – June 2nd, 2015



Flexible Microphone Headset, Gallet F1 XF helmet







Specification	Description	
Overview	Communication headset for integration in Gallet F1 XF fire helmet <ul style="list-style-type: none"> • One or two loudspeakers, in plastic housing with mounting clips. • 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) • Downlead Cable with anti-tearing, LEMO connecting plug (green cover). 	
Interoperability	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. <ul style="list-style-type: none"> • PTT module with Yellow connector: non ATEX system • PTT module with Green connector: ATEX system (for use with approved ATEX radios only) 	
Technical specifications	<ul style="list-style-type: none"> • Microphone: noise cancelling Electret, 100Hz-10kHz, distortion < 3% • Loudspeaker: 32 Ω, 20 Hz – 3 kHz, max power 100 mW • Amplifier: adjustable gain (0 to 26 dB), 300 Hz – 3 kHz Nominal output 50 mV RMS, Harmonic distortion 5% • Down lead Cable: Fire retardant, shielded cable • Housing: Polyamide (PA6), Fire resistant (V0) • Operation Temperature: -20°C to +65°C, humidity < 98% 	
Weight	<ul style="list-style-type: none"> • Standard version (1 speaker): 100 ± 10g • Premium version (2 speakers): 125 ± 10g 	
Approval	<ul style="list-style-type: none"> • EMC performance: ESD/EMI: 10 V/m • Ingress Protection testing: IP56 (tested inside the helmet) • ATEX (when used with an ATEX certified PTT module) • ATEX level: II 2G Ex ib IIC T4 Gb 	
Ordering Information	Part number (when ordered separately from the helmet) <ul style="list-style-type: none"> • GA010002B3X – Headset, Gallet F1XF, Flexible Microphone 1 Speaker • GA010002B3AX – Headset, Gallet F1XF, Flexible Microphone 2 Speakers 	
 <p><i>Headset, 1 speaker</i></p>	 <p><i>Headset, 2 speakers</i></p>	 <p><i>Microphone standby position</i></p>
 <p><i>Headset, in-use position</i></p>	 <p><i>Headset, standby position</i></p>	 <p><i>Connecting plug, headset to PTT</i></p>

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Flexible Microphone Headset, Gallet F1 XF helmet, NEXUS




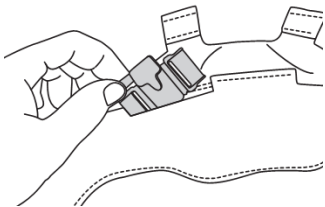


Specification	Description	
Overview	Communication headset for integration in Gallet F1 XF fire helmet <ul style="list-style-type: none"> • One or two loudspeakers, in plastic housing with mounting clips. • Flexible microphone, adjustable in length (80 mm) to optimize position in front of the mouth or in front of the speech diaphragm (BA face piece) • Coiled download Cable with NEXUS type (7.1 mm jack, 4 pole) connecting plug 	
Interoperability	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: noise cancelling Electret, 100Hz-10kHz, distortion < 3% • Loudspeaker: 32 Ω, 20 Hz – 3 kHz, max power 100 mW • Amplifier: adjustable gain (0 to 26 dB), 300 Hz – 3 kHz Nominal output 50 mV RMS, Harmonic distortion 5% • Down lead Cable: Fire retardant, shielded cable • Housing: Polyamide (PA6), Fire resistant (V0) • Operation Temperature: -20°C to +65°C, humidity < 98% 	
Weight	<ul style="list-style-type: none"> • Standard version (1 speaker): 100 ± 10g • Premium version (2 speakers): 125 ± 10g 	
Approval	<ul style="list-style-type: none"> • Ingress Protection testing: IP56 (tested inside the helmet) 	
Ordering Information	Part number (when ordered separately from the helmet) <ul style="list-style-type: none"> • GA010002H3 – Headset, Gallet F1XF, Flexible Microphone 1 Speaker, Nexus • GA010002H3A – Headset, Gallet F1XF, Flexible Microphone 2 Speakers, Nexus 	
 <p><i>Headset, 1 speaker</i></p>	 <p><i>Headset, 2 speakers</i></p>	 <p><i>Microphone standby position</i></p>
 <p><i>Headset, in-use position</i></p>	 <p><i>Headset, standby position</i></p>	 <p><i>Connecting plug, headset to PTT</i></p>

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Bone conductive Microphone Headset, Gallet F1 XF helmet





Specification	Description	
Overview	<p>Communication headset for integration in Gallet F1 XF helmet</p> <ul style="list-style-type: none"> • One or two loudspeakers, in housing with mounting clips. • Bone conductive microphone, inserted in the front headband padding. • Downlead Cable with anti-tearing, LEMO connecting plug (blue cover). 	
Interoperability	<p>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.</p> <ul style="list-style-type: none"> • PTT module with Red connector: non ATEX system • PTT module with Blue connector: ATEX system (for use with approved ATEX radios only) 	
Technical specifications	<ul style="list-style-type: none"> • Microphone: Accelerometer, 20 Hz – 20 kHz, Sensitivity 1 mV / mG • Loudspeaker: 32 Ω, 20 Hz – 3 kHz, max power 100 mW • Down lead Cable: Fire retardant, shielded cable • Housing: Polyamide (PA6), Fire resistant (V0) • Operation Temperature: -20°C to +65°C, humidity < 98% 	
Weight	<ul style="list-style-type: none"> • Standard version (1 speaker): 75 ± 10g • Premium version (2 speakers): 100 ± 10g 	
Approval	<ul style="list-style-type: none"> • EMC performance: ESD/EMI: 10 V/m • Ingress Protection testing: IP56 (tested inside the helmet) • ATEX (when used with an ATEX certified PTT module) • ATEX level: II 2G Ex ib IIC T4 Gb 	
Ordering Information	<p>Part number (when ordered separately from the helmet)</p> <ul style="list-style-type: none"> • GA010002A3X – Headset, Gallet F1XF, Bone conductive Microphone 1 Speaker • GA010002A3AX – Headset, Gallet F1XF, Bone conductive Microphone 2 Speakers 	
 <p><i>Headset, 1 speaker</i></p>	 <p><i>Headset, 2 speakers</i></p>	 <p><i>Headset mounted inside helmet (chinstrap not shown)</i></p>
 <p><i>Bone conductive sensor (inserted in headband padding)</i></p>	 <p><i>Left Speaker module (optional)</i></p>	 <p><i>Connecting plug, headset to PTT</i></p>

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Push-to-Talk Module







Specification	Description	
Overview	<p>Push-to-Talk Module (PTT) including:</p> <ul style="list-style-type: none"> Housing with large size, easy to handle push button Download cable to the PMR radio with connection plug Headset connection cable with anti-tearing LEMO plug Belt / Strap attachment through clip of pincer 	
Interoperability	<p>Operates with an MSA Headset, in particular helmet mounted headsets for Gallet F1 XF fire helmets.</p> <ul style="list-style-type: none"> 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 style="list-style-type: none"> Amplifier: Adjustable gain (0-26 dB), bandwidth 300Hz-3kHz Nominal output: 50mV RMS, harmonic distortion 5% Housing Material: High Temperature Thermoplastic (PA) Operation Temperature: -20°C to +65°C, humidity < 98% 	
Weight	<ul style="list-style-type: none"> Pincer version: approx. 200 g Clip Version: approx. 160 g <p><i>Note: Weight may vary depending on radio plug and cable type</i></p>	
Approval	<ul style="list-style-type: none"> 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 ib IIC T4 Gb 	
Ordering Information	<p>Ordering information depends on type of headset and type of radio. <i>Please consult MSA for exact configuration.</i></p>	
 <p><i>PTT Module, with headset plug (left) and radio plug (right) – Shown with Motorola GP 3x0 series connector</i></p>		
 <p><i>PTT module, pincer version (also available with belt clip)</i></p>	 <p><i>Headset connecting plug Color varies with configuration</i></p>	 <p><i>Radio connecting plug Ex: Motorola GP3x0 series</i></p>

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Hearing Protection with flexible Microphone

Specification	Description	
Overview	Active Hearing Protection headset with built-in communication capabilities, including: <ul style="list-style-type: none"> • Two ear muffs with padding and noise attenuation foam • Ear cup height adjustment system for optimal wearing position • Flexible microphone attached to the left muff • Downlead Cable with anti-tearing, LEMO connecting plug (green). 	
Interoperability	Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through LEMO plug with color codification. <ul style="list-style-type: none"> • PTT module with Yellow connector: non ATEX system • PTT module with Green connector: ATEX system (for use with approved ATEX radios only) 	
Technical specifications	<ul style="list-style-type: none"> • Microphone: Noise cancelling electret, 100Hz-10kHz, sensitivity -61 dB (nominal) at 50% humidity • Loudspeaker: 32 Ω, 100Hz-20kHz, max power 100mW • Material: Cup: PC/ABS, Cushion: Synthetic leather • Down lead 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	390 g ± 10g (including batteries)	
Approval	<ul style="list-style-type: none"> • EMC performance: ESD/EMI: 10 V/m • Fully watertight – equivalent to IP67 • ATEX (when used with an ATEX certified PTT module) • ATEX level: II 2G Ex ib IIC T4 • SNR value : 26 dB / H=26 / M=23 / L=18 	
Ordering Information	Part number (<i>when ordered separately from the helmet</i>) <ul style="list-style-type: none"> • GA010002D3X – Headset, Gallet F1XF, Hearing Protection, boom microphone 	
 <p><i>Headset general view</i></p>	 <p><i>Headset mounted inside the helmet</i></p>	 <p><i>Connecting plug, headset to PTT</i></p>
 <p><i>Ambient sound microphone</i></p>	 <p><i>Battery compartment</i></p>	 <p><i>Button (on/off and Volume +/-)</i></p>

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Hearing Protection with Bone conductive Microphone

Specification	Description	
Overview	Active Hearing Protection headset with built-in communication capabilities, including: <ul style="list-style-type: none"> • Two ear muffs with padding and noise attenuation foam • Built-in, level dependent function with amplification volume adjustment • Ear cup height adjustment system for optimal wearing position • Flexible microphone attached to the left muff • Downlead Cable with anti-tearing, LEMO connecting plug (blue). 	
Interoperability	Operates with an MSA Push-to-Talk (PTT) module enabling connection to the PMR radio. Connection through LEMO plug with color codification. <ul style="list-style-type: none"> • PTT module with red connector: non ATEX system • PTT module with blue connector: ATEX system (for use with approved ATEX radios only) 	
Technical specifications	<ul style="list-style-type: none"> • Microphone: Accelerometer, 20 Hz – 20 kHz, Sensitivity 1 mV / mG • Loudspeaker: 32 Ω, 100Hz-20kHz, max power 100mW • Material: Cup: PC/ABS, Cushion: Synthetic leather • Down lead 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 	
Weight	370 g ± 10g (including batteries)	
Approval	<ul style="list-style-type: none"> • EMC performance: ESD/EMI: 10 V/m • Fully watertight – equivalent to IP67 • ATEX (when used with an ATEX certified PTT module) • ATEX level: II 2G Ex ib IIC T4 • SNR value : 26 dB / H=26 / M=23 / L=18 	
Ordering Information	Part number (when ordered separately from the helmet) <ul style="list-style-type: none"> • GA010002C3X – Headset, Gallet F1XF, Hearing Protection, bone conductive 	
 <p><i>Headset general view</i></p>	 <p><i>Headset mounted in helmet</i></p>	 <p><i>Connecting plug, headset to PTT</i></p>
 <p><i>Ambient sound microphone</i></p>	 <p><i>Battery compartment</i></p>	 <p><i>Button (on/off and Volume +/-)</i></p>

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Hearing Protection with level dependant function

Specification	Description	
Overview	Active circum aural headset enabling the user to be in contact with the surroundings but still protect the hearing, including: <ul style="list-style-type: none"> • Two ear muffs with padding and noise attenuation foam • Built-in, level dependent function with amplification volume adjustment • Ear cup height adjustment system for optimal wearing position 	
Technical specifications	<ul style="list-style-type: none"> • Loudspeaker: 32Ω, 100Hz-20kHz, max power 100mW • Material: Cup: PC/ABS, Cushion: Synthetic leather • Battery: 2xAAA batteries, Duracell, Varta, Energizer (ATEX versions), • Surrounding sound amplifiers: Omnidirectional, sensitivity -38±2dB, Max input 110dB S.P.L 	
Weight	330 g ± 10g (including batteries)	
Approval	<ul style="list-style-type: none"> • EMC performance: ESD/EMI: 10 V/m • Fully watertight – equivalent to IP67 • ATEX Approval according to directive • ATEX level: II 2G Ex ib IIC T4 • SNR value : 26 dB / H=26 / M=23 / L=18 	
Ordering Information	Part number (when ordered separately from the helmet) <ul style="list-style-type: none"> • GA010002E3X – Headset, Gallet F1XF, Hearing Protection 	
 <p><i>Headset general view</i></p>	 <p><i>Headset mounted in helmet</i></p>	
 <p><i>Ambient sound microphone</i></p>	 <p><i>Battery compartment</i></p>	 <p><i>Button (on/off and Volume +/-)</i></p>