

MOLDEX
TACTICAL  PRODUCTS



BATTLEPLUGS[®]



ARMED FORCES / LAW ENFORCEMENT / INDUSTRIAL / PERSONAL

BattlePlugs are now an authorized hearing protector for use by Soldiers and Department of the Army Civilians

MOLDEX BATTLEPLUGS IMPULSE EARPLUGS

Patented Moldex BattlePlugs earplugs use a unique filter built into the plug body to instantaneously reduce dangerous, sudden impulse noises (e.g. weapons fire) plus allow for easy communication and improved awareness in the cap open position – NRR 9dB Medium, NRR 10dB Extra Small, and NRR 12dB Small and Large.

- Authorized hearing protector for use by Soldiers and Department of the Army Civilians.
- Highest performing spatial awareness rating of all earplugs included in testing performed by DOD Hearing Center of Excellence.
- Dual Mode Protection.
 - Open cap to hear commands while maintaining impulse noise protection.
 - Close cap for continuous/steady noise and impulse noise protection.
- The louder the blast, the more noise reduction (in open position).
- Cap is easy to open and close, in-ear.
- Easy to see when cap is in open or closed mode.
- Easy to clean.



Unique patented plug design

Open cap to hear commands while maintaining impulse noise protection



Close cap for continuous/steady noise and impulse noise protection

AVAILABLE IN FOUR SIZES WITH POCKET-PAK DUO W/ CORD & CHAIN

X-Small

NRR **20dB**
Cap Closed

NRR **10dB**
Cap Open



6496

X-Small
NSN # TBD
Replacement Tips
NSN # TBD

Small

NRR **24dB**
Cap Closed

NRR **12dB**
Cap Open



6497

Small
NSN # 6515016324167
Replacement Tips
NSN # 6515016324230

Medium

NRR **24dB**
Cap Closed

NRR **9dB**
Cap Open



6498

Medium
NSN # 6515016324179
Replacement Tips
NSN # 6515016324238

Large

NRR **24dB**
Cap Closed

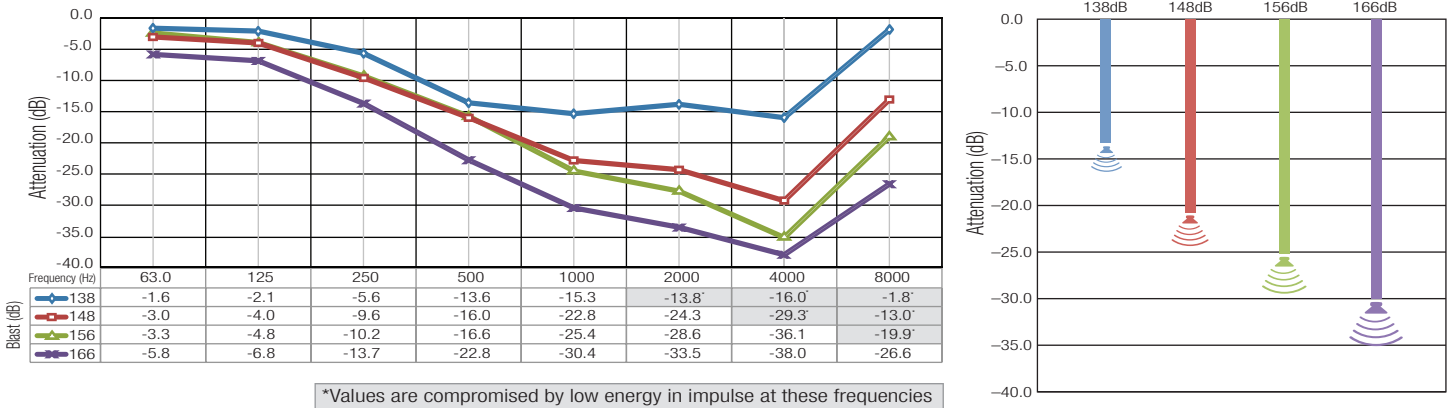
NRR **12dB**
Cap Open



6499

Large
NSN # 6515016324185
Replacement Tips
NSN # 6515016324243

BLAST PROTECTION DATA (CAP OPEN POSITION). THE LOUDER THE BLAST, THE MORE NOISE-REDUCTION PROTECTION PROVIDED



Left chart tests are performed at specific frequencies. Right chart tests are performed across entire sound spectrum.

NEW POCKET-PAK DUO WITH HEARING PROTECTOR CARRYING CASE

Having both impulse and passive earplugs at the ready, in a secure durable case, allows you to be better protected when your noise environment changes. Wear the passive earplugs at the shooting range and switch to the BattlePlugs in the field, where situational awareness is critical. Wear the BattlePlugs when you will need to hear commands and switch to the passive earplugs when in a loud transporter.

**Pocket-Pak® Duo
BattlePlugs Medium
with Camo Foam (33dB)**

NRR
24dB
Cap Closed

NRR
9dB
Cap Open



**Pocket-Pak® Duo BattlePlugs
Medium with Glide Camo
Foam Twist-In (30dB)**

NRR
24dB
Cap Closed

NRR
9dB
Cap Open



6598 – Pocket-Pak Duo BattlePlugs with Camo Foam

Part #	Size	Display Qty.	Case Qty.
6498 BattlePlugs	M	1 Pair/Bag	50 Bags
6498T Replacement Tips	M		
6608 Camo Foam Plugs (33db)			

6598

6698 – Pocket-Pak Duo BattlePlugs with Glide Camo Foam Twist-In

Part #	Size	Display Qty.	Case Qty.
6498 BattlePlugs	M	1 Pair/Bag	50 Bags
6498T Replacement Tips	M		
6941 Glide Camo Foam (30dB)			

6698

WE SUGGEST THESE EARPLUGS TO TRY WITH YOUR CURRENT BATTLEPLUGS



6604 SparkPlugs® NRR 33dB
NSN # 6515-01-490-5852



6800 Pura-Fit® NRR 33dB
NSN # 6515-01-660-8200



6820 Mellows® NRR 30dB
NSN # 6515-01-615-0646



6608 Camo Plugs® NRR 33dB
NSN – N/A



6941 Glide® Foam NRR 30dB
NSN – N/A

CAP CLOSED – PASSIVE NOISE LEVELS - X-SMALL, SMALL, MEDIUM, LARGE

BATTLEPLUGS ATTENUATION DATA

Test According to ANSI Specs S3.19-1974 Michael & Assoc., State College, PA.

	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000		
X-SMALL 6496	Mean Attenuation (dB)	33.0	30.0	34.5	33.4	35.0	33.9	25.0	24.4	28.1	NRR 20	CSA BL
	Standard Deviation (dB)	3.9	4.1	3.4	5.1	3.7	4.1	3.6	4.5	4.7		
SMALL 6497	Mean Attenuation (dB)	34.2	30.6	36.1	34.5	35.8	36.4	30.4	26.0	30.0	NRR 24	CSA BL
	Standard Deviation (dB)	3.7	3.7	4.2	3.9	3.4	3.2	3.1	2.5	3.7		
MEDIUM 6498	Mean Attenuation (dB)	31.3	27.0	34.2	30.7	36.1	40.9	34.1	31.1	32.3	NRR 24	CSA BL
	Standard Deviation (dB)	4.8	4.2	4.9	3.3	3.7	4.1	3.2	2.7	3.5		
LARGE 6499	Mean Attenuation (dB)	35.3	29.4	33.3	31.3	34.4	39.0	33.3	31.8	32.1	NRR 24	CSA BL
	Standard Deviation (dB)	3.4	2.9	3.7	3.7	3.8	4.4	3.7	4.0	3.5		

CAP OPEN – PASSIVE NOISE LEVELS - X-SMALL, SMALL, MEDIUM, LARGE

BATTLEPLUGS ATTENUATION DATA

Test According to ANSI Specs S3.19-1974 Michael & Assoc., State College, PA.

	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000		
X-SMALL 6496	Mean Attenuation (dB)	9.8	8.1	13.0	20.9	28.4	29.1	22.6	20.4	23.6	NRR 10	CSA C
	Standard Deviation (dB)	4.3	2.2	2.9	4.8	4.3	3.8	3.9	2.8	3.3		
SMALL 6497	Mean Attenuation (dB)	8.4	8.8	15.1	25.0	29.7	29.9	29.2	22.9	26.6	NRR 12	CSA C
	Standard Deviation (dB)	3.0	2.5	3.7	3.9	3.7	4.2	3.5	2.7	3.8		
MEDIUM 6498	Mean Attenuation (dB)	8.4	8.5	13.7	22.4	30.9	30.5	31.5	26.1	30.2	NRR 9	CSA C
	Standard Deviation (dB)	4.1	3.9	4.8	2.8	3.7	3.6	4.6	3.4	4.9		
LARGE 6499	Mean Attenuation (dB)	10.4	9.8	14.1	21.4	28.7	31.2	31.9	30.3	30.0	NRR 12	CSA C
	Standard Deviation (dB)	3.9	2.9	3.4	2.9	4.2	3.5	4.5	4.1	4.0		

WARNING TO USER – BATTLEPLUGS

- BattlePlugs reusable earplugs must be fitted and worn correctly to provide effective protection. Wash or clean hands before use. Plugs should be routinely washed with mild soap and warm water. CAUTION: Remove with a slow twisting motion to break the seal. Due to the tight seal, rapid removal may damage eardrum.
- Use this laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use often is significantly lower depending on how the protectors are fitted and worn.
- Failure to follow all instructions will reduce the protection provided by the earplugs. However, no earplug can completely protect the user from exposure to impulse sound and in particular to gunfire or weapons fire.
- BattlePlugs must only be used as part of a hearing conservation program that complies with applicable local safety and health regulations.
- Overprotection can be dangerous. The wearer must be able to hear warning signals.
- Wearers with hearing loss should exercise extreme caution.
- It is the employer's responsibility to ensure that the type of hearing protector and its NRR is appropriate for the user in their particular workplace.
- To select proper size tip choose the largest size that allows all flanges to fit comfortably inside the ear canal for a good seal.
- Use caution when working around machinery or other equipment to ensure neck cord does not become caught or entangled.
- Failure to follow these warnings could result in increased risk of hearing loss, injury or death.
- Although hearing protectors can be recommended for protection against the harmful effects of impulse noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulse noise such as gunfire. (Wording required by EPA)
- No earplug can completely protect the user from exposure to impulse sound and in particular to gunfire or weapons fire. BattlePlugs when properly fitted and worn will reduce exposure to harmful levels of impulse sound but cannot completely eliminate such exposure either through the ear canal or through bone conduction. Hearing loss may still occur even with proper fitting and use of any impulse noise earplug.
- Properly fitted passive slow recovery NRR 33 foam earplugs either alone or combined with high NRR earmuffs will provide greater protection from impulse sound to the user than any reusable impulse earplug but also cannot eliminate such exposure either through the ear canal or through bone conduction. Accordingly, hearing loss may still occur as a result of sustained or repeated exposure to impulse sound. However, slow recovery foam earplugs, either alone or with earmuffs, will not allow the user to hear commands, approaching vehicles or other sounds the user may need to hear.

BATTLEPLUGS ORDERING INFORMATION

SKU#	Plug Size	Qty./Case	Contents/Bag
6496 NSN #	X-Small TBD	50 Bags	Pair of BattlePlugs, cord, Pocket-Pak® Duo, Chain, and Instructions
6497 NSN #	Small 6515016324167	50 Bags	Pair of BattlePlugs, cord, Pocket-Pak® Duo, Chain, and Instructions
6498 NSN #	Medium 6515016324179	50 Bags	Pair of BattlePlugs, cord, Pocket-Pak® Duo, Chain, and Instructions
6499 NSN #	Large 6515016324185	50 Bags	Pair of BattlePlugs, cord, Pocket-Pak® Duo, Chain, and Instructions

BATTLEPLUGS REPLACEMENT TIPS

6496T NSN #	50 Pairs of X-Small Replacement Tips in Zip-Top Bag TBD
6487T NSN #	50 Pairs of Small Replacement Tips in Zip-Top Bag 6515016324230
6488T NSN #	50 Pairs of Medium Replacement Tips in Zip-Top Bag 6515016324238
6489T NSN #	50 Pairs of Large Replacement Tips in Zip-Top Bag 6515016324243

CAMO FOAM ATTENUATION DATA

Tested According to ANSI Specs S3.19-1974 Michael & Assoc., State College, PA.

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000		
Mean Attenuation (dB)	42.3	43.7	46.6	40.9	38.6	44.7	46.9	49.3	48.3	NRR 33	CSA AL
Standard Deviation (dB)	5.0	6.0	5.8	4.2	2.8	3.2	3.3	4.2	3.6		

GLIDE CAMO FOAM ATTENUATION DATA

Tested According to ANSI Specs S3.19-1974 by Michael & Assoc., State College, PA.

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000		
Mean Attenuation (dB)	31.7	32.2	36.1	37.8	40.9	42.7	41.2	46.2	48.0	NRR 30	CSA AL
Standard Deviation (dB)	5.2	3.5	4.4	3.3	3.2	2.2	3.0	4.1	4.3		

WARNING TO USER – CAMO FOAM AND GLIDE CAMO

- Use these laboratory derived attenuation data for comparison purposes only. The amount of protection afforded in field use often is significantly lower depending upon how the protectors are fitted and worn.
- Failure to obtain a proper fit will reduce effectiveness of hearing protectors and could result in hearing loss or injury.
- Over protection can be dangerous. The wearer must be able to hear warning signals.
- Wearers with hearing loss should exercise extreme caution.
- It is the employer's responsibility to ensure that the type of hearing protector and its rating is appropriate for the user in their particular workplace.
- Failure to follow all instructions and warnings could result in increased risk of hearing loss, serious injury or death.
- Foam earplugs must only be used as part of a hearing conservation program that complies with applicable local safety and health regulations.

(U.S. Army photo by Sgt. Taylor Hoganson)

MOLDEX TECHNICAL ASSISTANCE

Moldex provides all of the technical assistance required to set up a hearing protection program. For more information call +1 (800) 421-0668 or +1 (310) 837-6500 ext. 512/550 or E-mail: tech@moldex.com or visit www.moldex.com.

Keep earplugs away from infants and small children as they may get caught in the windpipe and create a choking hazard.



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