



APOLLO WiComm2 Bone-Conduction Radio Headset

Clearer Communication With Blast Operators Promotes Safety and Efficiency

IMPORTANT: For safe, efficient operation, read and follow the owner's manual (OM 29043) and seek training for everyone who will use this equipment.



WiComm2 technology transmits incoming messages as mild vibrations through the jawbone—not the eardrums. Users now can wear their choice of hearing protection, which promotes safety, efficient communication, and longer work shifts.

OVERVIEW

Bone-conduction radio headsets have significant advantages over traditional radio headsets. That's why law enforcement, firefighters, and the military use them, and increasingly blast operators.

HOW TRADITIONAL RADIO HEADSETS WORK

Sound is vibration. Vibrations travel from the eardrums to the inner ears to the brain, where vibrations are converted into sounds. Traditional radio-headset receivers sit over

or in a user's ears and transfer incoming vibrations using this pathway.

HOW BONE-CONDUCTION HEADSETS WORK

Apollo WiComm2 Bone-Conduction Radio Headsets use a different pathway. Their receivers sit over the upper tip of a user's jawbone, slightly in front of each ear. Incoming messages vibrate into the jawbone (not the eardrums) and from there into the inner ears and the brain. Users report that they clearly "hear" incoming messages and barely feel the incoming vibrations.

BENEFITS: BLAST OPERATORS

Because Apollo WiComm2 Headset receivers do not sit over or in a user's ears, blast operators can wear hearing protection, which blocks out background (ambient) noise.

Reduction of ambient noise:

- Helps operators focus on incoming messages and their blasting duties.
- Decreases operator exposure to noise above permissible exposure limits (PELs), which allows operators to work longer.
- These benefits promote safety and efficient communication far better than obsolete communication technologies.

BENEFITS: OTHER PROFESSIONS

Warehouse workers, forklift operators, yard workers, and other headset users may choose to wear minimal or no hearing protection so that they can remain aware of ambient noise, yet still receive clear incoming communications because of bone-conduction technology. Because ambient noise and incoming messages now take separate pathways to the brain, often there is less “scrambling” of these two sources of information than with traditional radio headsets, where all incoming sound shares the same pathway. This is one reason why law enforcement, firefighters, and the military use bone-conduction headsets.

NOISE-CANCELING AND PTT TECHNOLOGIES FOR OUTGOING MESSAGES

Directional, adjustable-boom microphone with noise-canceling technology reduces ambient noise in outgoing messages and is activated by a push-to-talk (PTT) switch.

COMFORTABLE, SECURE, AND FITS INSIDE CLEMCO RESPIRATORS

Adjustable, wrap-around style headset secures behind the user’s head while an adjustable, overhead strap holds the headset firmly in place. The headset also fits comfortably inside Clemco’s Apollo Supplied-Air Respirators.

S P E C I F I C A T I O N S

Microphone

• Impedance	<2.2k Ohms
• Sensitivity	<2.2k Ohms

Speaker

• Type	Vibration
• Impedance	8 Ohm ± 1% @ 1kHz
• Type Max Output	103dB ± -5dB @ 1Hz
• Average Rated Power	0.5W
• Maximum Power	1W
• Frequency Response	300-3.4kHz

Mechanical

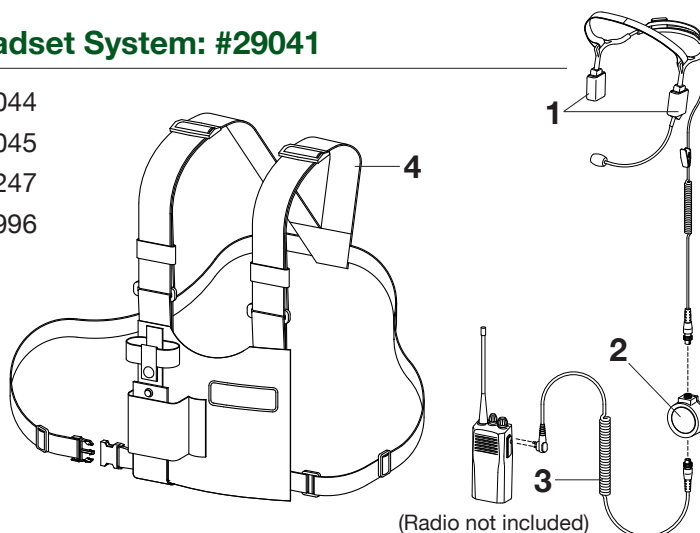
• Weight (headset)	4.1 oz (116 grams)
• IP67	Dust Resistant - Waterproof (headset only)

Compatible Radio

- Compatible with Motorola 2-Prong Radio (not included)

Complete Bone-Conduction Radio Headset System: #29041

1. Headset, Bone-Conduction #29044
2. Switch, Push-to-Talk (PTT)..... #29045
3. Cable Harness, PTT to Radio..... #29247
4. Holster #24996



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