

3M™ Peltor™ Technical Datasheet

3M™ Peltor™ LiteCom Plus Headsets MT7H7*4610-NA



PELTOR™

Product Description

The 3M Peltor LiteCom Plus Headset is a hearing protector with a built-in communication radio for cable-free, short-range communication with other 3M Peltor LiteCom Plus headsets and portable two-way radios programmed on the same frequency. Level dependent, external microphones allow the user to hear environmental sounds such as warning signals, helping to increase workplace awareness. An external audio input allows you to connect to an external phone or portable two-way radio, regardless of frequency. The noise-cancelling speech microphone with voice-operated transmission (VOX) functionality enables you to communicate hands free in noisy environments.

Versions

Product Number	Description	3M ID Number
MT7H7A4610-NA	LiteCom Plus Two-Way Radio Communications Headset, Headband	XH001680632
MT7H7B4610-NA	LiteCom Plus Two-Way Radio Communications Headset, Neckband	XH001680640
MT7H7P3E4610-NA	LiteCom Plus Two-Way Radio Communications Headset, Hard-Hat Attached	XH001680657

Key Features

- Built in two-way radio communication
- 22 channels (FRS/GMRS), 8 channels (BRS)
- 38 CTCSS + 83 DCS subchannels
- Cup-mounted push-to-talk button or voice-operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice-guided menu system

Accessories and Spare Parts

Product Number	Description	3M ID Number
HY79	Hygiene kit	XH001651047
HY100A	Single-use protectors	XH001651351
HYM1000	Microphone protector	XH001651328
MT7N-02	Dynamic microphone (standard)	XL001634069
M42/1	Wind shield for microphone dynamic mic.	XH001659792
ACK081	Battery	XH001680541
AL2AI	Charging cable	11003074017
FR08	Power supply	XH001680194
FL5602	External PTT	XH001654561
M60/2	Wind protection for microphones	XH001652532
FL6CS	Connecting cable, 2.5 mm stereo connector	XH001652052
FL6CT	Connecting cable, 3.5 mm mono connector	XH001652060
FL6BR	Connecting cable, Peltor J11 connector	XH001652029
MT90-02	Throat microphone	XL001644068



FCC Licensing Information

3M™ Peltor™ PowerCom™ Business Radio Services Two-Way Radio headsets operate on radio frequencies that are regulated by the Federal Communications Commission (FCC). In order to transmit on these frequencies, you are required to have a license issued by the FCC. For questions regarding FCC license, contact the FCC at: 1-888-CALL-FCC (1-888-225-5322) or visit www.fcc.gov.

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Materials: Headband wire (stainless steel)
Two-point fastener (POM)
Ear cushion (PVC foil and polyether foam)
Attenuation cushion (Polyether foam)
Headband padding (PVC, Polyether foam)
Cup (ABS plastic)

Battery type: 3.7 V Lithium ACK081
Operating time: 20 hours
Weight (incl. batteries): 464 g (headband)
491 g (hard hat att.)
453 g (neckband)

Charging temperature: 32F to +104F (0C to +40C)
Operating temperature: -4F to +131F (-20C to +55C)
(battery dependent)
Storage temperature: -4F to +131F (-20C to +55C)

Recommended shelf life: 5 years (products), 1 year (batteries)

Operation mode: Half-duplex
Channels: 22 (FMRS/GMRS), 8 (BRS)
Channel separation: 12.5 kHz
Modulation: FM: 2.5 kHz and 5 kHz
Microphone type: Noise cancelling Dynamic (MT7)
Receiver sensibility: Typical -122 dBm
Selective squelch: CTCSS (38 subchannels) DCS (83 codes)
Output power: 200 mW

Range: 9,500 ft (3 km) depending on conditions

Power consumption: Standby: <59 mA
Receiving: <70 mA
Transmitting high power: <230 mA
Transmitting low power: <160 mA

In the box: 1 x LiteCom Plus Communications Headset
1 x Battery ACK081
1 x Power supply FR08
1 x Cable AL2AI
1 x Hygiene kit HY79
1 x Mic protector, 100 cm HYM1000-10
1 x User instruction

Attenuation Data: MT7H7A4610-NA / Position: Over-the-Head ANSI S3.19-1974											
Test Frequencies	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean (dB)	17.8	23.0	32.1	36.2	35.1	39.0	38.7	38.3	36.5	25 db	A
SD (dB)	4.4	3.2	2.8	3.0	2.4	3.8	3.0	3.5	3.9		

Attenuation Data: MT7H7B4610-NA / Position: Behind-the-Head ANSI S3.19-1974											
Test Frequencies	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean (dB)	18.9	25.9	35.2	37.0	34.9	40.6	39.9	39.7	39.7	26 db	A
SD (dB)	5.2	3.2	3.3	2.9	2.5	3.6	3.0	2.3	2.5		

Attenuation Data: MT7H7PE4610-NA / Position: Hard-Hat Attached ANSI S3.19-1974											
Test Frequencies	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean (dB)	19.4	24.3	33.6	35.5	34.1	38.5	38.0	35.8	35.7	25 db	A
SD (dB)	3.4	3.3	3.8	1.7	2.6	3.6	3.1	5.4	5.4		

Factory Default Settings

Channel	Channel Numbers	Freq. (MHz)	Channel	Channel Numbers	Freq. (MHz)
1	FRS/GMRS 1	462.5625	16	FRS/GMRS 16	462.5750
2	FRS/GMRS 2	462.5875	17	FRS/GMRS 17	462.6000
3	FRS/GMRS 3	462.6125	18	FRS/GMRS 18	462.6250
4	FRS/GMRS 4	462.6375	19	FRS/GMRS 19	462.6500
5	FRS/GMRS 5	462.6625	20	FRS/GMRS 20	462.6750
6	FRS/GMRS 6	462.6875	21	FRS/GMRS 21	462.7000
7	FRS/GMRS 7	462.7125	22	FRS/GMRS 22	462.7250
8	FRS 8	467.5625	23	BRS 1	464.5000
9	FRS 9	467.5875	24	BRS 2	464.5500
10	FRS 10	467.6125	25	BRS 3	467.7625
11	FRS 11	467.6375	26	BRS 4	467.8125
12	FRS 12	467.6625	27	BRS 5	467.8500
13	FRS 13	467.6875	28	BRS 6	467.8750
14	FRS 14	467.7125	29	BRS 7	467.9000
15	FRS/GMRS 15	462.5500	30	BRS 8	467.9250

For more information in the United States, contact:
Technical Assistance: 1-800-665-2942
Customer Care Center: 1-800-328-1667
3M.com/Peltor



Personal Safety Division
3M Center, Building 235-2W-70
St. Paul, MN 55144-1000
www.3M.com/Peltor

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⚠ WARNING!

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protectors at all times that you are exposed to hazardous noise may result in hearing loss or injury.** For proper use, see supervisor, Fitting Instructions, or call 3M in U.S. at 1-800-665-2942. In Canada, call Technical Service at 1-800-267-4414.