

# 3M™ Peltor™ Technical Datasheet

## 3M™ Peltor™ LiteCom BRS Headsets MT53H7\*4600-NA



PELTOR™

### Product description

The 3M Peltor LiteCom BRS Headset is a hearing protector with a built-in communication radio for cable-free, short-range communication with other 3M Peltor LiteCom headsets and portable two-way radios programmed on the same 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
MT53H7A4600-NA	LiteCom BRS Two-Way Radio Communications Headset, Headband	XH001680566
MT53H7B4600-NA	LiteCom BRS Two-Way Radio Communications Headset, Neckband	XH001680574
MT53H7P3E4600-NA	LiteCom BRS Two-Way Radio Communications Headset, Hard-Hat Attached	XH001680582

### Key Features

- Ideal for work team communications in noisy environments
- Built in two-way radio communication
- Pre-programmed with 8 channels Business Radio Services (BRS) and 38 subchannels
- Cup-mounted push-to-talk button or voice-operated transmission (VOX)
- Auto power off function and battery status indicator
- 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
M995	Wind shield for electret microphone	70071524527
ACK053	Rechargeable battery	XH001680608
FR08	Power supply	XH001680194
FR09	Battery charger	XH001680616
1180 SV	Battery cover	XL001600565
MT53N-12	Electret microphone	XL001633814



### FCC Licensing Information

3M™ Peltor™ PowerCom™ Business Radio Services (BRS) 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](http://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 foamfoil)  
Cup (ABS plastic)

**Battery type:** 2x AA alkaline (3.0 V) or NiMH (2.4 V)  
**Operating time:** 20 hrs  
**Weight (incl. batteries):** 394 g (headband), 418 g (hard hat att.)  
384 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:** 8 (BRS)  
**Channel separation:** 12.5 kHz  
**Modulation:** FM: 2.5 kHz  
**Microphone type:** Noise cancelling Electret (MT53)  
**Receiver sensibility:** Typical -122 dBm  
**Selective squelch:** CTCSS (38 channels)  
**Output power:** 150 mW  
**Range:** Up to 9,500 ft (3 km)  
depending on conditions

**Power consumption:** Standby: <80 mA  
Receiving: <85 mA  
Transmitting: <210 mA

**In the box:** 1 x LiteCom Headset  
2 x AA Alkaline Batteries  
1 x User instruction

Attenuation Data: MT53H7A4600-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: MT53H7B4600-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: MT53H7PE4600-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	Freq. (MHz)	Channel	Freq. (Mhz)
1	464.5000	5	467.8500
2	464.5500	6	467.8750
3	467.7625	7	467.9000
4	467.8125	8	467.9257

### For more information in the United States, contact:

Technical Assistance: 1-800-243-4630  
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 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.