



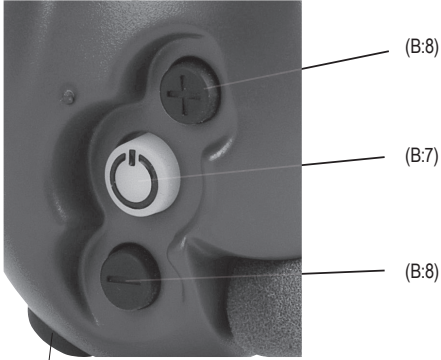
Peltor™ WS™ ProTac™ XP
MT15H7*WS5**

The Sound Solution



PELTOR™

(B)



(B:8)

(B:7)

(B:8)

(B:10)



(B:11)



(B:5)

(B:1)

(B:2)

(B:8)

(B:10)

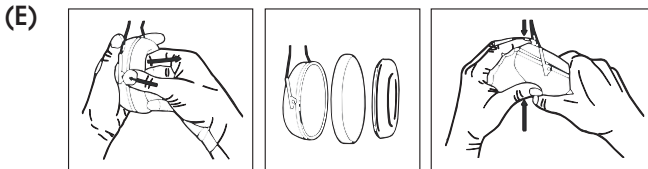
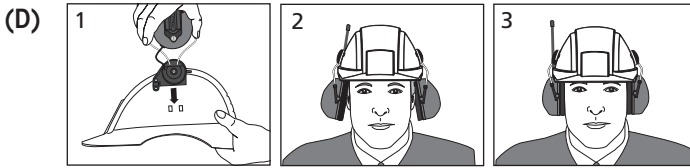
(B:7)

(B:4)

(B:6)

(B:3)

(B:9)



(F) **MT15H7P3*WS5****

| | | | | | | | | |
|---|------|------|------|------|------|------|------|------|
| Frequency (Hz) ²⁾ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) ³⁾ | 17.2 | 18.6 | 23.2 | 30.8 | 35.4 | 35.5 | 37.0 | 34.2 |
| Std deviation (dB) ⁴⁾ | 3.8 | 2.7 | 2.7 | 4.4 | 2.5 | 4.2 | 3.2 | 3.7 |
| Assumed Protection Value (dB) ⁵⁾ | 13.4 | 15.9 | 20.4 | 26.3 | 32.9 | 31.2 | 33.8 | 30.5 |

1) 345g

SNR=31 db H=32 db M=29 db L=22 db

MT15H7A*WS5**

| | | | | | | | | |
|---|------|------|------|------|------|------|------|------|
| Frequency (Hz) ²⁾ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) ³⁾ | 19.2 | 17.4 | 24.0 | 31.9 | 34.4 | 35.1 | 37.0 | 35.1 |
| Std deviation (dB) ⁴⁾ | 4.0 | 2.8 | 2.9 | 3.0 | 2.6 | 4.3 | 4.0 | 3.2 |
| Assumed Protection Value (dB) ⁵⁾ | 15.2 | 14.5 | 21.1 | 28.9 | 31.9 | 30.8 | 33.1 | 32.0 |

1) 352g

SNR=31 db H=32 db M=29 db L=22 db

MT15H7B*WS5**

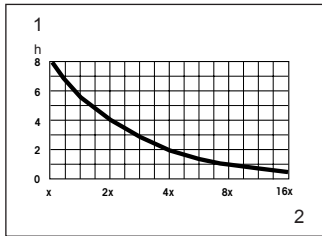
| | | | | | | | | |
|---|------|------|------|------|------|------|------|------|
| Frequency (Hz) ²⁾ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) ³⁾ | 17.0 | 15.6 | 21.8 | 30.8 | 32.7 | 33.6 | 36.4 | 34.9 |
| Std deviation (dB) ⁴⁾ | 3.8 | 3.8 | 3.5 | 2.9 | 2.9 | 2.5 | 3.3 | 2.4 |
| Assumed Protection Value (dB) ⁵⁾ | 13.2 | 11.8 | 18.2 | 27.9 | 29.8 | 31.1 | 33.1 | 32.4 |

1) 352g

SNR=30 db H=32 db M=27 db L=19 db

G

Input signal / usage time



Standards & Approval

R&TTE

EN 300 328 v1.7.1

EN 60950-1 :2006 + A1:2010 + A11:2009 + A12:2011

EN 301 489-1 v1.8.1

EN 301 489-17 v2.1.1

FCC

FCC 15.247 (Title 47 CFR chapter I part 15 subpart C)

FCC 15b (Title 47 CFR chapter I part 15 subpart B)

IC

RSS-210

ICES-103

Bluetooth

V. 2.1

K

| 1) Helmet Manufacturer | 2) Helmet Model | 3) Test Report | 4) Attachment | 5) Electronic protectors Size ranges: S=small, N=medium, L=large |
|------------------------|-----------------------------|--|---------------|---|
| | | | | MT15H7P3*WS5** |
| Auboueix | Brennus | 95484T01 | F | SNL |
| Auboueix | Fondelec | 95484T01 | F | SNL |
| Auboueix | Iris | 95484T01 | E | NL |
| Auboueix | Iris 2 | 26276T02 | E | NL |
| Sofop Taliaplast | Oceanic | 95484T01 | E | NL |
| Sofop Taliaplast | Opus | 95484T01 | E | NL |
| Berendsen Safety, | Balance HD | 26103T01 26104T01 26105T01 26106T01 | N | SNL |
| Centurion | 1125/ARCO plus | 95484T01 | H | SNL |
| Centurion | 1100/ARCO type 2 | 95484T01 | H | NL |
| Centurion | 1540/ARCO | 95484T01 | A | NL |
| Evert Larsson | Robust | 95484T01 | E | SNL |
| Evert Larsson | Balance | 95484T01 | E | NL |
| Evert Larsson | Balance AC/3M 1465 | 95484T01 | E | NL |
| Kemira | Top Cap | 95484T01 | A | SNL |
| LAS | LP2002 | 95484T01 | E | SNL |
| LAS | LP2006 | 95484T01 | E | SNL |
| MSA | Super V-Gard II | 95484T01 | E | SNL |
| MSA | V-Gard | 95484T01 | E | SNL |
| Peltor | G2000 | 95484T01 | K, E | SNL |
| Peltor | G22 (BASIC SET) | 95484T01 22004T01 21361T01 21331T01 | E | SNL |
| Peltor | G3000 | 26276T01 | E | SNL |
| Petzl | Vertex | 26099T01 26100T01 26101T01 26102T01 | E | SNL |
| Protector | Style 300 | 21046T01 | E | SNL |
| Protector | Style 600 | 21046T01 | G | SNL |
| Protector | Tuffmaster II | 21046T01 | E, G | NL |
| Römer | Bravo 2 Nomaz | 95484T01 | B | SNL |
| Römer | Marcus Top 2 Atlas Nomaz | 95484T01 | B | SNL |
| Römer | N2 Atlas Nomaz | 95484T01 | BB | SNL |
| Römer | Profi Expo | 95484T01 | E | SNL |
| Römer | Profi Nomaz | 95484T01 | E | SNL |

| 1) Helmet Manufacturer | 2) Helmet Model | 3) Test Report | 4) Attachment | 5) Electronic protectors Size ranges: S=small, N=medium, L=large |
|------------------------|-----------------|----------------|---------------|---|
| | | | | MT15H7P3*WS5** |
| Römer | Top Expo Atlas | 95484T01 | B | SNL |
| Schuberth | BEN | 95484T01 | BB | SNL |
| Schuberth | BER80/WPC80 | 95484T01 | EA | SNL |
| Schuberth | BER S | 26276T02 | E | SNL |
| Schuberth | BOP R | 95484T01 | B | SNL |
| Schuberth | PIONIER | 95484T01 | B | SNL |
| Schuberth | SH 91/WPL 91 | 95484T01 | EB | SNL |
| Schuberth | SW1 | 26099T01 | EB | NL |
| UVEX | Airwing | 95484T01 | E | SNL |
| Voss | Inap 88 | 95484T01 | E | SNL |
| Voss | Inap Master | 95484T01 | E | NL |
| Voss | Inap Star | 26276T01 | E | NL |
| Voss | Inap PCG | 95484T01 | G | NL |

WS ProTac XP

| | | | |
|------------|---------|-----------|---------|
| GB | 2-9 | IS | 130-137 |
| AF | 10-17 | IT | 138-145 |
| AR | 18-25 | KZ | 146-153 |
| BG | 26-33 | LT | 154-161 |
| BLR | 34-41 | LV | 162-169 |
| CZ | 42-49 | NL | 170-177 |
| DE | 50-57 | NO | 178-185 |
| DK | 58-65 | PL | 186-193 |
| EE | 66-73 | PT | 194-201 |
| ES | 74-81 | RO | 202-209 |
| FI | 82-89 | RU | 210-217 |
| FR | 90-97 | SE | 218-225 |
| GR | 98-105 | SI | 226-233 |
| HE | 106-113 | SK | 234-241 |
| HR | 114-121 | TR | 242-249 |
| HU | 122-129 | UA | 250-257 |

Declaration of Conformity

258-259

WS ProTac XP

The product(s) described in this user instruction is in conformity with the provisions set out in the Personal protective equipment (PPE) directive 89/686/EEC and the Radio equipment and Telecommunications terminal equipment directive (R&TTE) 1999/5/EC. Thereby it fulfils the requirements for CE marking.

1. WHAT IS WHAT

- (B:1) Headband wire (stainless steel)
- (B:2) Two-point fastener (headband wire)
- (B:3) Ear cushion (PVC foil and Polyester foam)
- (B:4) Microphone for surround sound
- (B:5) Headband padding (Thermoplastic Elastomer or Leather)
- (B:6) Flex audio input
- (B:7) On/Off/Mode
- (B:8) VOL+, VOL –
- (B:9) Speech microphone
- (B:10) **Bluetooth** button
- (B:11) PTT button (Flex Headset)

2. FITTING AND ADJUSTMENT

Over-the-head band (Fig. C)

- Slide the cups out and place the headset over your ears so that the ear cushions fit snugly. (1)
- Adjust the height of the cups by sliding them up or down whilst holding the headband in place. (2)
- The headband should be positioned across the top of the head. (3)

Helmet attachment (Fig. D)

- Snap the helmet attachment into the slot on the helmet (1).
- The cups can be set in two positions: Ventilation position (2) or working position (3).
- When in use, the cups must be placed in working position!
- Press the headband wires inwards until you hear a click on both sides and ensure that the shell or the headband wires do not press against the lining or edge of the helmet, which could cause noise leakage.
- Notice! Never place cups with humid foam on the helmet! (4)

Helmet mounted version approved combinations (Fig. K)

1. Helmet brand
2. Helmet model
3. Test report
4. Helmet attachment
5. Electronic protectors. (Size ranges: S=small, N=medium, L=large)

3. USAGE/FUNCTIONS

3:1 Switching the headset on and off

Press and hold the On/Off/Mode button (B:7) for two seconds to switch the headset on or off.

3:2 Bluetooth pairing

The headset can be paired with and connected to **Bluetooth** units that support the profiles: A2DP, HFP or HSP.

NOTE that you can only stream stereo sound/music from a unit (mobile phone, computer, etc.) that supports the A2DP **Bluetooth** profile.

- Ensure that the headset is charged and switched off.
- Press and hold the On/Off/Mode button (**B:7**) for five seconds.
This puts the headset into pairing mode, which is confirmed by repeated voice message: "**Bluetooth** pairing mode".
- Activate your telephone's **Bluetooth** function and search for new units. After a few seconds "Peltor WS5" will appear on the screen.
- Select "Peltor WS5".

- If the phone asks you for a password, enter: 0000
- Pairing is confirmed when you hear the voice message: "pairing complete".
Once the **Bluetooth** pairing function is activated it will automatically establish connection with the headset next time it is used with a confirmation voice message "connecting **Bluetooth**", and then: "connected" when the units are connected.
You can pair and store up to 3 units. The headset will automatically try to connect to the most recently connected unit first.

3:3 Managing phone calls

To manage phone calls, the headset must be paired with and connected to a mobile phone with **Bluetooth** capability, see **Bluetooth** pairing.

Answering calls

Incoming phone calls are indicated with a voice message "incoming call" in the headset.
Answer by pressing briefly on the **Bluetooth** button (**B:10**).

Rejecting a call

Reject a call by pressing and holding the **Bluetooth** button for 2 seconds (**B:10**).

Voice dial

Press briefly on the **Bluetooth** button (**B:10**).

Redial

Press and hold the **Bluetooth** button for 2 seconds (**B:10**).

3:5 Adjusting surround-sound volume

Increase volume. Press the (upper) + button (**B:8**).

Decrease volume. Press the (lower) – button (**B:8**).

3:6 Adjusting call volume (mobile phone)

You can adjust volume during a call by pressing the (+) or (–) buttons (**B:8**).

Press the On/Off/Mode button (**B:7**) and then (+) or (–) buttons (**B:8**) to adjust the surround-sound volume during a call.

3:7 Adjusting streamed-music volume

You can adjust volume while streaming music by pressing the (+) or (–) buttons (**B:8**). Press briefly on the On/Off/Mode button (**B:7**) and then (+) or (–) buttons (**B:8**) to adjust the surround-sound volume during music streaming.

3:8 Adjusting communication volume (Peltor WS Adapter)

You can adjust the communication volume by pressing the (+) or (–) buttons (**B:8**). Press the On/Off/Mode button (**B:7**) and then (+) or (–) buttons (**B:8**) to adjust the surround-sound volume during a call.

3:9 Adjusting Remote volume (Peltor WS Ground Mechanic Adapter)

You can adjust volume to the pilot by pressing the (+) or (–) buttons (**B:8**).

3:10 Changing settings in the Configure menu

The headset has a Configure menu where you can adjust settings.

To access the menu, press and hold the (–) and (+) buttons (**B:8**) for 2 seconds (with the headset switched on).

Access to the Configure menu is confirmed by a voice saying: "menu". To change the settings, use the (–) and (+) buttons (**B:8**).

To move on through the Configure menu, press briefly on the On/Off/Mode button (**B:7**).

See quick guide for information on how the menu is set up and where the functions are located.

VOX

Voice-operated transmit

ON

OFF

Battery type

2xAA Alkaline, 1,5 V

Rechargeable (NiMH, 1,2 V)

Reset to Factory Default

Resets all functions to the factory settings.

Hold **Bluetooth** button to confirm **(B:10)**

3:11 Connecting external equipment via a cord (Flex -77 version)

External equipment can be connected via the Flex audio input **(B:6)**

For information on various cords, see Spare Parts/Accessories.

4. OTHER FUNCTIONS

- The last settings are stored when the headset is switched off.
- Low battery level is indicated by a voice message: "low battery".
- Digital noise reduction on the boom microphone

5. IMPORTANT USER INFORMATION

The headset must be worn, adjusted, cleaned and maintained in accordance with this manual. As with any hearing protector, incorrect use or failure to follow the instructions supplied with this product could result in permanent disability due to exposure to noise.

This ear-muff is provided with level-dependent attenuation.

The wearer should check correct operation before use. If distortion or failure is detected, please refer to the instructions for replacement of the battery.

Warning! - Performance may deteriorate with battery usage.

Warning! - The output of the level-dependent circuit of this hearing protector may exceed the external sound level.

This hearing protector provides an entertainment audio facility. The the entertainment audio signal is limited to 82 dB(A) effective to the ear for a maximum input signal level over the Bluetooth protocol.

Warning! The audibility of warning signals may be impaired while using the entertainment facility.

NOTICE! 100% use of a proper hearing protector is the only certain protection from hearing loss.

In environments with more than 82 dB A-weighted noise level, you need to protect your hearing. The hearing receptors in your inner-ears may be irreparably damaged if you lift a cup of your hearing protectors for even a very short time in a noisy environment.

The use of a comfortable hearing protector, designed for the specific noise level in which it is used, is the best guarantee to that you will wear the hearing protector 100% of the time to protect yourself from permanent hearing loss.

For best protection, brush aside excess hair around your ears so the cushions fit snugly on your head. The arms/bands of any spectacles or goggles worn should be as thin as possible to allow the hearing protector to fit closely to the head.

IMPORTANT! For the best protection, brush aside hair around the ears so the ear cushions fit snugly against the head.

Spectacle frames should be as thin as possible and fit close to the head to minimise acoustic leakage.

6. TECHNICAL DATA**6:1 Attenuation values, SNR (F)**

The attenuation values and noise levels for the headset are tested and approved according to EN 352-1:2002, EN 352-3: 2002, EN 352-4: 2001, EN 352-6 : 2002, EN 352-8 2008. Testing performed and Certificate issued by Combitech AB, Box 168, SE-73223 Arboga, Sweden, ID#2279.

Explanation of the attenuation data tables:

1. Weight
2. Frequency (Hz)
3. Mean attenuation (dB)
4. Standard deviation (dB)
5. Assumed Protective Value (dB)

6:2 Sound exposure when using the Flex jacket (G)

The earphone level for music is measured at:

Max AUX input signal level = 1,5 V rms

AUX input signal level: 52 mV rms = 82dB

6:3 Criterion levels

A criterion level is the amount of noise (measured as A-weighted sound pressure) outside the hearing protector that gives 85 dB(A) inside. The noise level depends on the type of noise. **H** is high-frequency dominated noise, **M** is noise that is not dominated by any given frequency, and **L** is low-frequency dominated noise.

On WS ProTac XP the criterion levels that are defined in EN352-4 is: L = 98dBa M = 102dBa H = 116dBa

6:4 Battery type

Many types of AA 1.2–1.5V batteries can be used (NiMH, NiCd, Alkaline), but only NiMH and NiCd batteries can be recharged.

6:5 Battery life

The expected battery life may vary depending on the brand of batteries and the temperature in which the product is used. Low battery level is indicated by a voice saying: "low battery". The headset functions will not work optimally if the battery is low.

2*AA Alkaline Battery Life time

Surround + **Bluetooth** (active) > 24h

Surround only + **Bluetooth** Off > 150h

6:6 Bluetooth 2.1

A2DP 1.2

HSP 1.2

HFP 1.5

AVRCP 1.0

The headset is designed for **Bluetooth** standard V.2.1 (headset and handsfree profiles + A2DP) and is tested in accordance with: EN 300 328-17 (radio test), EN 301 489-1/-17 (EMC test), EN 60 950-1 (electric safety), FCC part 15.247 (US radio test) and I.C. (Canadian radio test).

Safety information

Your wireless transceiver contains low power transmitter. When the transmitter is activated it sends out radio frequency (RF) signals. This device is authorized to operate at a duty factor not exceed 50%. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and violate FCC regulations

7. STORAGE

Do not store the hearing protector at temperatures exceeding +55°C, for example on a dashboard or windowsill. Do not store the hearing protector at temperatures below –55°C.

NOTE: WHEN DAMP. Turn the shells outwards. Remove the ear cushions (**E**) so that the attenuation cushions can dry. Remove the batteries when storing the hearing protector for a long time. Check the functioning of the unit after replacing the batteries. The recommended maximum shelf life is 5 years from date of manufacturing.

8. MAINTENANCE / CLEANING / DISPOSAL

After prolonged use, or other situations in which the headset attracts moisture inside the cups, remove the cushions and inserts to allow the hearing protector to dry before its next use.

Do not store the headset in temperatures exceeding +55°C, for example on a car dashboard/hat shelf or window sill.

The headset (especially the ear cushions) can eventually wear out. Inspect regularly for signs of any physical damage and replace if necessary. Certain chemical substances may be harmful to this product. Contact 3M for more information.

Clean/disinfect the shells, headband and ear cushions regularly with soap and warm water.

Notice! Do not immerse in water or fluids.

This product is covered by the WEEE directive 2002/96/EC and is recyclable. Dispose of the product in accordance with national regulation. Use a local recycling system for electronic products.

WARNING!

The sound from the active-volume circuit on the hearing protector may exceed the external sound level.

This product is covered by the WEEE directive 2002/96/EC and is recyclable. Dispose the product in accordance with national regulation. Use local recycling system for electronic products.

8:1 CLEANING

Clean/disinfect the shells, headband and ear cushions regularly with soap and warm water.

Note: Do not immerse in water or fluids.

8:2 REMOVING/REPLACING EAR CUSHIONS

(E) Slide your fingers under the edge of the ear cushion and pull straight out.

Insert a new ear cushion by pressing until it snaps into place.

9. SPARE PARTS/ACCESSORIES**HY79 Hygiene kit**

Easily replaceable hygiene kit consisting of two attenuation cushions, two foam rings and snap-in ear cushions. Replace at least twice a year to ensure consistent attenuation, hygiene and comfort!

HY100A Clean – single-use protectors

A single-use protector that is easy to apply to the ear cushions. Package contains 100 pairs.

HYM1000 Mike Protector

Moisture and wind-proof with hygienic tape. Protects the speech microphone and enhances its life span.

Package of 5 meters for about 50 replacements. Contains natural latex, not recommended for use by sensitive persons.

M40/1 Wind shield for MT7-type speech microphones

Effective protection from wind noise. Enhances the life span and protects the speech microphone.

One per package.

M60/2 Wind shield for ambient microphones

Effective protection from wind noise. One pair per package.

MT7 Dynamic microphone

Microphone boom with dynamic microphone.

ACK053 Rechargeable battery pack

Rechargeable NiMH Battery pack, 2500 mAh.

1180 SV Battery lid

Battery lid for the use of 1.5 V batteries type LR6 (AA) (One lid is included in the package on delivery.)

FR09 Battery charger

Battery charger for the Peltor ACK053 accumulator battery.

Flex Connecting cable

Please contact your 3M Peltor dealer!

WARRANTY

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the user instruction. For complete warranty condition, contact your dealer or local 3M office.

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3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



Declaration of Conformity



Certificates

Australia

3M Australia Pty. Limited
Building A, 1 Rivett Road
North Ryde, N.S.W. 2113
+61 1800 024 464

Austria

3M Österreich GmbH
Brunner Feldstraße 63 2380 Perchtoldsdorf
+43 01 86686 0

Azerbaijan

3M (East) AG
"BRIDGE Plaza" 4th floor,
12 Bakikhanov street Baku AZ 1065
+994 12 404 5050

Belarus

3M Belarus Representation Office
Mogilevskaya str 18, office 4220007
Minsk
+375 172 22 97 90

Belgium

3M Belgium N.V. / S.A.
Hermeslaan 7
1831 Diegem
+32 2 722 53 10

Bulgaria

3M Bulgaria Representation Office
1715 Sofia, Mladost 4 Business Park, sgrada 4
+359 2 960 19 11

China

41/F, Maxdo Centre, No.8 Xing Yi Rd.,
Hong Qiao Development Zone Shanghai,
200336 China
+86 021 22103047

Croatia

3M Croatia Representation Office
Predstavništvo, Žitnjak bbHRA 10000
Zagreb
+385 1 2499 750

Czech Republic

3M Česko, spol. s r. o.
V Parku 2343/24
140 00 Praha 4
+420 261 380 111

Denmark

3M a/s
Fabriksparken 15
DK-2600 Glostrup
+45 43480100

Egypt

3M Egypt
Sofitel Tower,
Corniche el-Nil St.
19th Floor, Maadi, Cairo
+2 02 2525 9007

Estonia

3M Eesti filiaal
Mustamäe tee 410621 Tallinn
+372 6 115 900

Finland

Suomen 3M Oy PL 90,
Lars Sonckin kaari 602601
Espoo
+358 9 52 521

France

3M France
Bd de l'Oise
95006 Cergy-Pontoise cédex
+33 0810 331300

Germany

3M Deutschland GmbH
Carl-Schurz-Str. 1
41453 Neuss
+49 2131 14 26 04

Great Britain

3M United Kingdom
PLC3M Centre, Cain Road Bracknell,
RG12 8HT
+44 870 60 800 60

Greece

3M Hellas Limited
Κηφισίας 20151 25 Μαρούσι,
Αθήνα-Μαρούσι
+30 210 68 85 300

Hungary

3M Hungária Kft.
Váci út 140 1136 Budapest
+36 1 270 7777

India

3M India Limited
Corporate Office, Concorde Block, UB City,
24 Vittal Mallya Road Bangalore - 560001
+91 80 665 95 759

Ireland

3M Ireland
3M House, Adelphi Centre,
Upper Georges Street Dun Loaghair,
Co. Dublin
+353 1 800 320 500

Israel

ישראל בע"מ 3M רח' מדינת היהודים
91 ת.ד. 2042 הרצליה

Italy

3M Italia S.p.A.
Loc. San Felice-Via San Bovio 3
20090 Segrate (MI)
+39 800 802145

Kazakhstan

3M Kazakhstan Representation Office
140 Dostyk Av., 3-rd floor
050051 Almaty
+7 727 237 47 37

Latvia

3M pārstāvniecība LatvijāK.
Ulmaņa gatve 5
LV-1004 Rīga
+371 67 066 120

Lithuania

3M atstovybė
Švitrigailos g. 11b
LT-03228, Vilnius, Lietuva
+370 5 216 07 80

Morocco

3M Morocco La Colline II, N°33 Rdc,
Route de Nouasser, Sidi Maarouf
Casablanca
+212 22 977 977

Netherlands

3M Nederland B.V.
Industrieweg 24
2482 NW Zoeterwoude
+31 071 5 450 450

New Zealand

3M New Zealand Limited
94 Apollo Drive, Rosedale, AUCKLAND 0632
+64 (0)800 364 357

Norway

3M Norge A/S,
Avd. Verneprodukter, Postboks 100,
Hvamveien 6, 2026 Skjetten
+47 63 84 75 00

Pakistan

3M Pakistan (PVT) Ltd.
Islamic Chamber of Commerce Building ST-2/A,
Block 9, KDA Scheme 5,
Clifton-Karachi 75600
+ 92 21 111 2255 36

Poland

3M Poland Sp. z o.o.
Aleja Katowicka 117, 05-830 Nadarzyn
Kajetany K. Warszaw
+48 22 739 60 00

Portugal

3M Portugal Lda
Rua do Conde de Redondo 98
1169-009 Lisboa
+351 21 313 45 00

Romania

3M România
Bucharest Business Park,
Str. Menutului 12, Cladirea D, et.3,
013713 Bucharest
+40 21 202 8000

Russia

RUZAO "3M Russia"
Krylatsky Hills Business Park,
Krylatskaya st., 17, bldg. 3
121614 Moscow
+7 495 784 7474

Serbia

3M Representation Office
Beograd Milutina Milankovica 2311070
Novi Beograd
+381 11 3018459

Slovakia

3M Slovakia Representation Office
Obchodné zastúpenie
Vajnorská 142, 831 04 Bratislava
+421 2 491 05 211

Slovenia

3M (East) AG
Podružnica v Ljubljani Cesta v Gorice 8,
SI-1000 Ljubljana
+386 1 2003 630

South Africa

3M South Africa
146a Kelvin Drive, Woodmead Sandton
2128 Rivonia
+27 011 806 2355

Spain

3M España,
S.A. Juan Ignacio Luca de
Tena 19-25, 28027 Madrid
+34 91 321 60 00

Singapore

3M Singapore Pte Ltd
3M Technologies (Singapore) Pte Ltd
1 Yishun Avenue 7
Singapore 768923
(65) 6450 8888 (Yishun)

Sweden

3M Svenska AB
Bollstanäsvägen 3
191 89 Sollentuna
+46 8 92 21 00

Switzerland

3M (Schweiz) AG
Eggstrasse 93,
Postfach 8803 Rüschlikon
+41 1 724 92 21

Taiwan

3M Taiwan
6F, NO. 95, Dunhua S. Rd.,
Sec. 2 Taipei, Taiwan
886 2 27049011

Turkey

3M Sanayi ve Ticaret A.Ş
Şehit Sinan Eroğlu Cad
Suryapı Akel İş Merkezi No:6
A Blok Kavacık Beykoz
34805 İstanbul
(90) 216 538 07 77

Ukraine

3M Ukraine 30-B,
Fizkultury St., Business center "Farenheit"
3rd floor, Kyiv, 03680,
+380 44 490 57 77

United Arab Emirates

3M Gulf Ltd
P.O. Box 20191 Building 11,
Third Floor, Dubai Internet City,
Deira
+ 971 4 367 0777



3M Svenska AB

Box 2341

SE-331 02 Värnamo, Sweden

t: +46 (0) 370 65 65 65

f: +46 (0) 370 65 65 99

e: www.3M.com/peltorcomms