
3M Science. Applied to Life.™
Connections That Last
3M™ Red Dot™ Electrodes
1974 2016
Over 40 Years of Trusted Connections

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Performance Priced Options

Today, facilities are challenged to reduce operating costs while maintaining high-quality patient care.

With help from 3M, you can meet the challenge by standardizing electrodes without compromising on product performance. From value-priced electrodes that feature good performance across most applications to our best electrodes for your most demanding applications, 3M has you covered.

Value-priced 3M™ Foam Monitoring Electrodes (2228/2244)

These electrodes let you reduce costs while maintaining quality patient care.

Three-day wear time.
Clinically tested to provide good electrode performance for up to three days.

30 day out of bag freshness guarantee.

Packaged for efficiency. The 2228 electrode comes in individual patient packs of 3 and 5 electrodes. Our 2228 and 2244 electrodes are available in bulk packs of 50 electrodes. All electrode liners are perforated to be torn off individually.

3M™ Foam Monitoring Electrode 2228
1.57" x 1.3"
(4 cm x 3.3 cm)
Sticky gel

3M™ Foam Monitoring Electrode 2244
1.57" x 1.3"
(4 cm x 3.3 cm)
Radiolucent, Sticky Gel

Universal 3M™ Red Dot™ Foam Monitoring Electrodes (2560/2570)

These electrodes feature a larger adhesive area and gel area to improve performance. Diaphoretic.

Five-day wear time. Clinically tested to provide good electrode performance for up to five days.

45 day out of bag freshness guarantee.

Packaged for efficiency. Our 2570 electrode comes in individual patient packs of 3 and 5 electrodes as well as bulk packs of 50 electrodes. Our 2560 electrode is available in bulk packs of 50 electrodes.

3M™ Red Dot™ Monitoring Electrode with Foam Tape and Sticky Gel 2560
1.6" x 1.36"
(4.1 cm x 3.5 cm)

3M™ Red Dot™ Monitoring Electrode with Foam Tape and Sticky Gel 2570
1.6" x 1.36"
(4.1 cm x 3.5 cm)
Radiolucent, with abrader

Repositionable Electrodes

For your most demanding applications, our 2660/2670 monitoring electrodes, with a full coverage conductive surface area, provide improved trace quality.

3M™ Red Dot™ Soft Cloth Monitoring Electrodes (2660/2670)

Larger conductive area.
The conductive surface area of our Red Dot™ Repositionable Monitoring Electrodes is larger than that of conventional electrodes. This results in improved EKG trace quality.

Comfortable and conformable.
The low-profile, soft cloth backing provides ease of application and removal, helps to improve patient comfort and reduces the risk of electrodes catching on medical devices, drapes, gowns or bedding.

Adhesion choices.
Red Dot™ Repositionable Monitoring Electrodes are available in two levels of adhesion. Both are quick to stick on skin and gentle on removal, but the Red Dot™ Repositionable Monitoring Electrode 2670 is the preferred choice when more aggressive adhesion is needed.

3M™ Red Dot™ Repositionable Monitoring Electrode 2660
1.57" x 1.23"
(4 cm x 3.1 cm)
Radiolucent

3M™ Red Dot™ Repositionable Monitoring Electrode 2670
1.57" x 1.23"
(4 cm x 3.1 cm)
Radiolucent, stronger adhesive than 2660

MR conditional.
The 3M™ Red Dot™ Monitoring Electrodes model numbers 2244, 2570, 2660 and 2670 have been demonstrated to be MR conditional.[1]

[1] 3M Technical Bulletin 70-2010-9070-4.

Short Term Diagnostics

The unique needs of resting EKG monitoring are met with the 3M family of electrodes designed for this critical diagnostic application.

Easy to apply and remove.
The reverse tab placement provides quick and easy access to the electrode for single-handed application. The tab is convenient for leadwire placement and for ease of removal.

Excellent adhesion.
Excellent adhesion with the flexibility to securely reposition the electrode helps save clinician time and facility cost. 2360 is preferred choice when more aggressive adhesion is needed.

Intimate skin contact.
The conductive adhesive on 3M™ Red Dot™ Resting EKG Electrodes provides intimate skin contact to help ensure accurate EKG traces - even on challenging sites.

Defibrillation recoverable.
Red Dot™ Resting EKG Electrodes can continue to be used after defibrillation.

3M™ Red Dot™ Resting EKG Electrode 2330
0.8" × 1.2"
(2 cm × 3 cm)
Gentle adhesive

3M™ Red Dot™ Resting EKG Electrode 2360
0.8" × 1.2"
(2 cm × 3 cm)
Repositionable, stronger adhesive than 2330

Pediatric Electrodes

The tender skin of younger pediatric patients is a consideration when selecting the backing and adhesive characteristics of an electrode.
In addition to the pre-wired electrodes, 3M also offers gentler adhesives and comfortable backings in traditional electrodes for these special patients.

Gentle adhesive.
Helps reduce risk of skin trauma.

Smaller footprint for children.
Accommodates smaller chest sizes.

3M™ Red Dot™ Pediatric Monitoring Electrode with 3M™ Micropore™ Tape Backing 2248-50
1.75" dia. (4.4 cm dia.)
Solid gel

3M™ Red Dot™ EKG Monitoring Electrode 2268-3
1.25" dia. (3.2 cm dia.)
Conductive adhesive Soft Cloth Radiolucent

Pre-wired – Infant & Neonatal Electrodes

3M has a family of pre-wired electrodes specifically designed for newborns and infants. Features include:

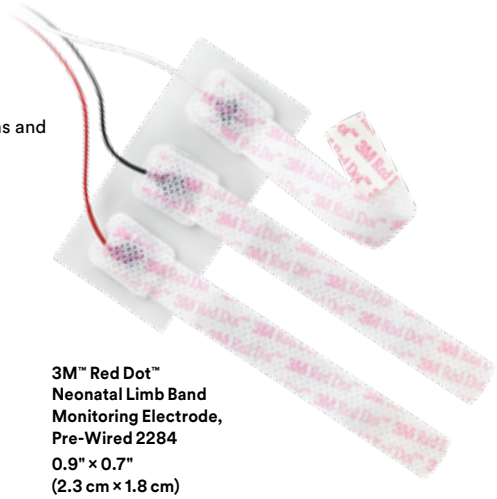
Pre-wired and colour-coded.
For ease of application and trace quality.

Gentle adhesive. Helps reduce risk of skin trauma on neonatal skin prior to full barrier formation.

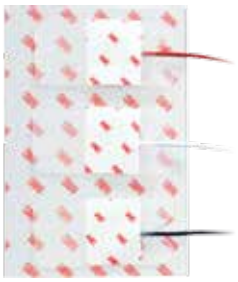
Two leadwire lengths:
18" (45.7 cm) 2280, 2282, 2283, 2284
22" (55.8 cm) 2269T.

Radiolucent: 2269T, 2282, 2283, 2284

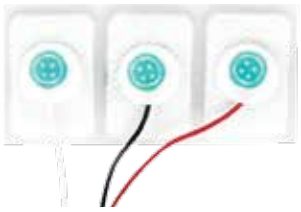
Smaller footprint for neonates.
Accommodates smaller chest sizes.



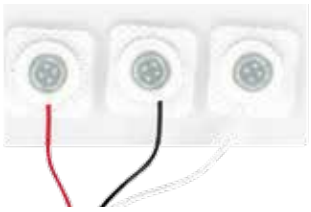
3M™ Red Dot™ Neonatal Limb Band Monitoring Electrode, Pre-Wired 2284
0.9" × 0.7" (2.3 cm × 1.8 cm) Radiolucent
18" (45.7 cm) leadwire length



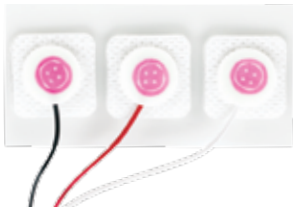
3M™ Red Dot™ Neonatal/Infant Pre-Wired Monitoring Electrode, Radiolucent with Clear Tape 2269T.
0.8" × 1.57" (2 cm x 4 cm)
22" (55.8 cm) leadwire length



3M™ Red Dot™ Infant, Pre-Wired, Radiolucent Monitoring Electrode 2283
1.3" × 0.9" (3.3 cm × 2.3 cm) 18" (45.7 cm) leadwire length



3M™ Red Dot™ Neonatal, Pre-wired, Non-Radiolucent Monitoring Electrode with Soft Cloth 2280
0.9" × 0.9" (2.3 cm × 2.3 cm) 18" (45.7 cm) metal leadwire



3M™ Red Dot™ Neonatal, Pre-wired, Radiolucent Soft Cloth Monitoring Electrode 2282
0.9" × 0.9" (2.3 cm × 2.3 cm) 18" (45.7 cm) leadwire length

Solutions for Fragile Skin

In today's patient population, fragile skin is often a concern whether due to age, medication or repeated removal of adhesive products. It's a delicate balance to protect the patient's skin and maintain good adhesion to obtain acceptable EKG trace quality.

Conformable backings to follow skin contours.
3M™ Micropore™ Soft Cloth Tape backings are low profile to help minimize catching of medical devices and fabrics. This helps reduce the risk of early lift which often necessitates electrode removal and replacement.

Gentle adhesives. Pressure Sensitive Adhesives (PSAs) need both pressure and warmth (from the patient's body) to achieve optimum adhesion. 3M has formulated these electrodes' PSA to be gentle on the skin.

Small size option. The 2268-3 electrode is a compact addition to our fragile skin portfolio, well-suited for both pediatric and adult patients. Gentle, conductive adhesive over the entire electrode may help improve trace quality. Low profile increases conformability and comfort. Lift tab makes electrode removal easy.

3M™ Red Dot™ Soft Cloth Monitoring Electrode 2268-3
1.25" dia. (3.2 cm dia.)
Conductive adhesive
Radiolucent

3M™ Red Dot™ Monitoring Electrode with 3M™ Micropore™ Tape Backing 2239
2.4" dia. (6.1 cm dia.), solid gel

3M™ Red Dot™ Soft Cloth Monitoring Electrode 2255-50
2.4" dia. (6.1 cm dia.) with abrader, solid gel

3M™ Red Dot™ Monitoring Electrode with 3M™ Micropore™ Tape Backing 2249-50
2.4" dia. (6.1 cm dia.) with abrader, solid gel

Diaphoretic Solutions

The diaphoretic patient's skin presents a challenge in maintaining reliable contact for a quality EKG trace. 3M offers product solutions to address the challenge.

Large footprint for greater adhesive area.
3M™ Red Dot™ Diaphoretic Monitoring Electrodes combine both a greater surface area and a strong adhesive to help improve trace quality.

Foam and soft cloth backings.
Backing choices for conformability, patient comfort and low profile.

Abrader for gentle skin prep.
3M™ Red Dot™ Monitoring Electrodes 2271 incorporate an abrader for gentle skin abrasion. Gentle skin abrasion results in lower skin impedance and improved EKG trace quality.

See also: Performance priced product
2560, 2570, 2228, 2244

3M™ Red Dot™ Diaphoretic Foam Monitoring Electrode 2230
2.2" × 2" (5.6 cm × 5.1 cm), solid gel

3M™ Red Dot™ Diaphoretic Soft Cloth Monitoring Electrode 2231
2.2" × 2" (5.6 cm × 5.1 cm), solid gel

3M™ Red Dot™ Diaphoretic Soft Cloth Monitoring Electrode 2271-50
2.2" × 2" (5.6 cm × 5.1 cm), solid gel with abrader

Fluid Resistant Solutions

Several 3M™ Red Dot™ Electrodes have a foam polyethylene backing that is fluid-resistant. Thus, they don't absorb liquids which could reduce the electrode's ability to adhere well. These electrodes are well suited for applications where fluids are present.

Two footprints. The surface area can be selected to help meet patient needs.
2235, 2256-50, 2259 - 2" (5.1 cm) diameter
2237 - 1.75" (4.4 cm) diameter

3M™ Red Dot™ Foam Monitoring Electrode 2560
1.6" × 1.36" (4.1 cm × 3.5 cm) with Sticky Gel

3M™ Red Dot™ Clear Plastic Monitoring Electrode 2235
2" dia. (5.1 cm dia.)
Solid gel

3M™ Red Dot™ Foam Monitoring Electrode 2256-50
2" dia. (5.1 cm dia.)
with wet gel, abrader

3M™ Red Dot™ Foam Monitoring Electrode 2237
1.75" dia. (4.4 cm dia.) solid gel

3M™ Red Dot™ Foam Monitoring Electrode 2259
2" dia. (5.1 cm dia.) with solid gel, abrader

Solutions for Skin Prepping

Advanced diagnostic EKG and EKG monitoring equipment demand excellent skin prep for optimal results. Virtually every EKG monitor and electrode supplier strongly recommends skin prep for optimal performance, and for good reason — it works. Removing the non-conductive skin layer with an effective skin prep helps improve the traces.

Clear traces help reduce unnecessary print-outs, save EKG paper and waste fewer electrodes. 3M electrodes available with built-in abrader: 2249, 2256, 2259, 2271, 2570

Factors Affecting Trace Quality

- Site selection
- Use of alcohol on skin
- Lack of skin abrasion
- Poor electrode adhesion
- Dried-out electrodes

3M™ Red Dot™ Trace Prep 2236 (36 rolls/case)

3M™ Red Dot™ Monitoring Electrode with blue abrader: 2249, 2255, 2256, 2259, 2271

3M™ Red Dot™ Foam Monitoring Electrode 2570 - Radiolucent front and back with blue abrader

"Proper skin preparation prior to electrode placement lowers skin impedance and can significantly reduce artifact in all electrode applications." [2]

[2] Oster, C. Proper Skin Prep Helps Ensure EKG Trace Quality. Biomedical Instrumentation and Technology. Volume 34 No 3, May/June 2000, pp219-222.

Suggested Applications

	2228	2244	2560	2570	2660	2670	2330	2360	2269T	2280	2282	2283	2284	2239	2249-50	2268-3	2231	2271	2235	2237
EMS/ED	●	●	●	●	●	●											●	●	●	●
ICU/CCU	●	●	●	●	●	●											●	●	●	●
Telemetry/ Holter/Event	●	●	●	●		●											●	●	●	●
OR	●	●	●	●	●	●													●	●
Cath Lab		●		●	●	●								●	●	●	●	●	●	●
Stress Test	●	●	●	●		●											●	●		
Cardiac Rehab	●	●	●	●	●	●											●	●		
Echo-Cardio	●	●	●	●		●								●	●	●	●	●	●	●
EKG Lab							●	●												
12 Lead EKG							●	●												
Echo-Cardio									●		●	●								
Peds ICU									●	●	●	●				●				
NICU									●	●	●	●	●							
Peds OR									●			●				●				
ICU														●	●	●				

Application and Removal Instructions

Application Instructions

PREPARE THE SKIN
Application sites must be clean, dry, and free of any body lotions. Cleaning with isopropyl alcohol should be avoided or limited to situations in which electrode adhesion is an issue (excessively oily or lotion covered skin). If alcohol is used, allow it to dry prior to electrode application.

Excessive hair at the site should be removed by clipping. Gently abrade the skin using the abrader pad on the back of some electrodes (blue strip or gray disc) or 3M™ Red Dot™ Trace Prep. Make an X on the skin with the abrader. Apply the electrode and then gently rub around the electrode to set the pressure sensitive adhesive.

APPLY THE ELECTRODE
If using snap connection leadwires, connect the leadwires to the electrodes before placing the electrode onto the patient. Avoid pressing on the stud when electrode is on the patient. After placing the electrode on the patient, round your finger around the front label to activate the pressure sensitive adhesive.

Removal Instructions

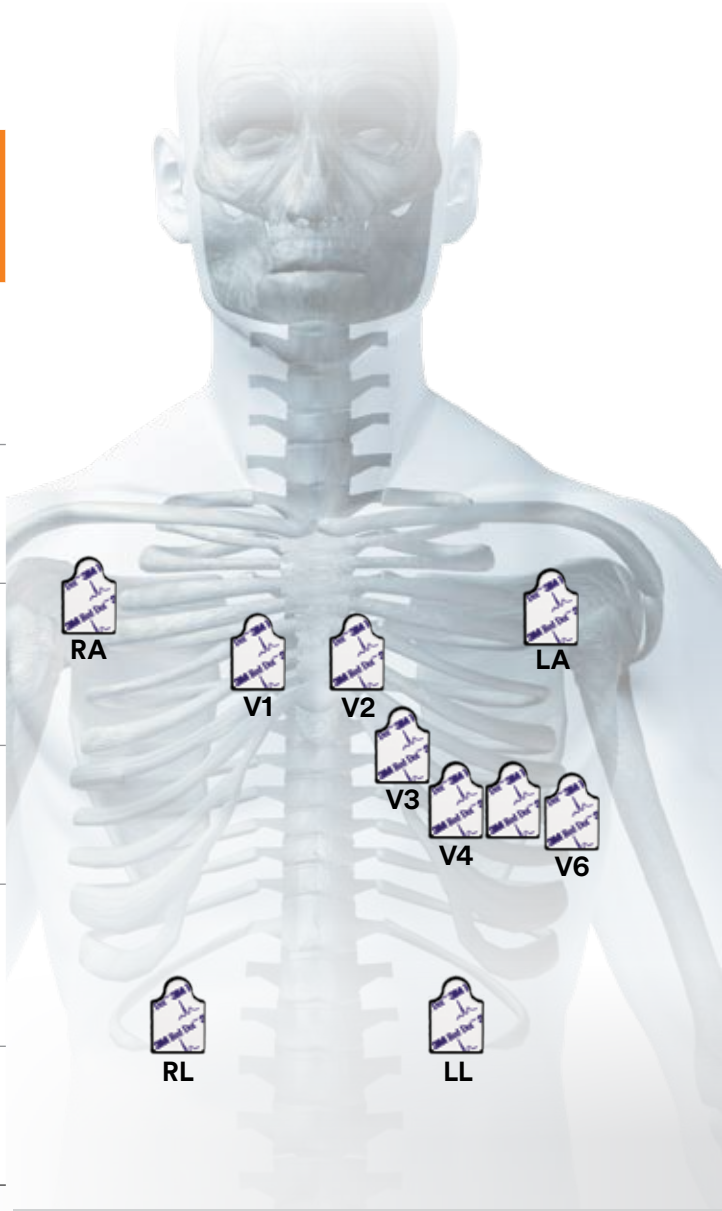
REMOVE
In order to remove, loosen one side of the electrode. Grasping the full width of the electrode, slowly and gently pull it back over itself.

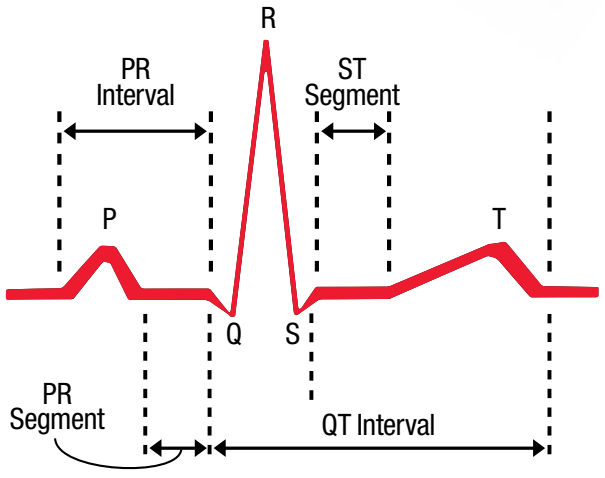
Electrodes should be removed in the direction of hair growth whenever possible. Keep the electrode close to the skin surface as you pull it back, and support the skin immediately adjacent to the adhesive being removed.

Troubleshooting EKG Traces

Troubleshoot each artifact in order, starting with 1

Artifacts	Skin Impedance	Muscle Movement	Electrical Continuity	Electrodes	Cabling	Interference	Equipment
No Base Line			2 Check all connections/ perform continuity check	4 Check for dry-out	3 Check for proper cable		1 Check lead switch and EKG machine set-up
Base Line Wander	3 Abrade skin	1 Stop patient movement	2 Check ground connections	4 Use same type of electrode at all sites	6 Check for proper cable	5 Check for static build-up	
AC Noise	3 Abrade skin	6 May be untreatable involuntary muscle tremor	1 Check ground connections	5 Check for dry-out	7 May need fully shielded cable and lead wires	2 Keep cable away from AC cord	4 Turn off fluorescent lights and/or other equipment
Intermittent Signal			1 Check for loose connections	2 Check for loose electrode or dry-out	4 Perform continuity check	3 Check for static build-up	
Motion Artifact	2 Abrade skin	1 Move electrodes off muscle mass	3 Check for loose connections	4 Check for loose electrode or dry-out	7 Perform continuity check	5 Turn off fluorescent lights and/or other equipment	6 Check for proper EKG machine set-up
Low Amplitude	3 Abrade skin		1 Check all connections	4 Check for dry-out		5 Turn off radio, TV and/or other equipment	2 Check gain settings





12-Lead Placement

Resting Electrodes

RA : Second intercostal space lateral right side
LA : Second intercostal space lateral left side
LL : Lower left lateral chest or left leg
RL : Lower right lateral chest or right leg
V1 : Fourth intercostal space to the right of the sternum
V2 : Fourth intercostal space to the left of the sternum
V3 : Between V2 and V4
V4 : Fifth intercostal space along themid-clavicular line
V5 : Fifth intercostal space between V4 and V6
V6 : Fifth intercostal space along the mid-axillary line

Ordering Information

	Product No.	Description	Packaging
Performance Priced Options	2228	Foam Monitoring Electrode, 1.57 inch x 1.3 inch (4 cm x 3.3 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2228-3	Foam Monitoring Electrode, 1.57 inch x 1.3 inch (4 cm x 3.3 cm) with Sticky Gel	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
	2228-5	Foam Monitoring Electrode, 1.57 inch x 1.3 inch (4 cm x 3.3 cm) with Sticky Gel	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
	2244	Foam Monitoring Electrode, Radiolucent, 1.57 inch × 1.3 inch (4 cm × 3.3 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2560	Foam Monitoring Electrode, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2570	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
Repositionable	2660-3	Repositionable Soft Cloth Monitoring Electrode, 1.25 inch × 1.23 inch (3.2 cm × 3.1 cm) Radiolucent with Lift Tab	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
	2660-5	Repositionable Soft Cloth Monitoring Electrode, 1.25 inch × 1.23 inch (3.2 cm × 3.1 cm) Radiolucent with Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
	2670-3	Repositionable Soft Cloth Monitoring Electrode, 1.25 inch × 1.23 inch (3.2 cm × 3.1 cm) Radiolucent with Aggressive Adhesive and Lift Tab	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
	2670-5	Repositionable Soft Cloth Monitoring Electrode, 1.25 inch × 1.23 inch (3.2 cm × 3.1 cm) Radiolucent with Aggressive Adhesive and Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
Short Term Diagnostics	2330	Resting Tab Style EKG Diagnostic Electrode with Gentle Adhesive, 0.8" × 1.2" (2 cm × 3 cm)	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case
	2360	Resting Tab Style EKG Diagnostic Electrode with Aggressive Adhesive, 0.8" × 1.2" (2 cm × 3 cm)	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case
Pediatric	2248-50	Micropore™ Paper Tape Monitoring Electrode, 1.75 inch dia. (4.4 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2268-3	Soft Cloth Monitoring Electrode, 1.25 inch dia. (3.2 cm dia.) with Conductive Adhesive and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
Pre-wired	2269T	Neonatal Monitoring Electrode, Pre-Wired with Clear Tape, 0.8 inch x 1.57 inch (2 cm x 4 cm) with 22 inch (55.8 cm) Radiolucent Leadwire	300 electrodes/case, 3/bag, 10 bag/box, 10 box/case
	2280	Neonatal Monitoring Electrode, Pre-Wired with Soft Cloth, 0.9 inch × 0.9 inch (2.3 cm x 2.3 cm) with 18 inch (45.7 cm) Metal Leadwires	300 electrodes/case, 3/bag, 100 bag/case
	2282	Neonatal Monitoring Electrode, Pre-Wired with Soft Cloth, 0.9 inch × 0.9 inch (2.3 cm x 2.3 cm) with 18 inch (45.7 cm) Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
	2283	Infant Monitoring Electrode, Pre-Wired with Soft Cloth, 1.3 inch × 0.9 inch (3.3 cm × 2.3 cm) with 18 inch (45.7 cm) Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
	2284	Neonatal, Pre-wired Limb Band Monitoring Electrode, 0.9 inch x 0.7 inch (2.3 cm x 1.8 cm) with 18 inch (45.7 cm) Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
Fragile Skin	2239	Micropore™ Paper Tape Monitoring Electrode, 2.4 inch dia. (6.1 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2249-50	Micropore™ Paper Tape Monitoring Electrode, 2.4 inch dia. (6.1 cm dia.) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2255-50	Soft Cloth Monitoring Electrode, 2.4 inch dia. (6.1 cm dia.) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2268-3	Soft Cloth Monitoring Electrode, 1.25 inch dia. (3.2 cm dia.) with Conductive Adhesive and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
Diaphoretic	2228	Foam Monitoring Electrode, 1.57 inch x 1.3 inch (4 cm x 3.3 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2230	Diaphoretic Foam Monitoring Electrode, 2.2" × 2" (5.6 cm x 5.1 cm) with Solid Gel	1000 electrodes/case, 50/bag, 20 bag/case
	2231	Diaphoretic Soft Cloth Monitoring Electrode, 2.2 inch × 2 inch (5.6 cm x 5.1 cm) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2244	Foam Monitoring Electrode, Radiolucent, 1.57 inch × 1.3 inch (4 cm × 3.3 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2271-50	Diaphoretic Soft Cloth Monitoring Electrode, 2.2 inch × 2 inch (5.6 cm x 5.1 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2560	Foam Monitoring Electrode, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2570	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
Fluid Resistant	2235	Clear Plastic Monitoring Electrode, 2 inch dia. (5.1 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2237	Foam Monitoring Electrode, 1.75 inch dia. (4.4 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2256-50	Foam Monitoring Electrode, 2 inch dia. (5.1 cm dia) with Wet Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2259-50	Foam Monitoring Electrode, 2 inch dia. (5.1 cm dia) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
	2560	Foam Monitoring Electrode, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
	2570	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4.1 cm × 3.5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case

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To learn more about the 3M™ Red Dot™ Electrodes, call the **3M Health Care Helpline** at **1-800-364-3577** or visit **www.3M.com/patientmonitoring**