

3M™ Red Dot™ Electrodes
Reference Guide



Connections that Last



3M™ Red Dot™ Electrodes

1974  2014

40 Years of Trusted Connections



3M™ Red Dot™ Electrodes Reference Guide

Performance Priced Options



3M™ Foam Monitoring Electrode 2228
1.57" × 1.3" (3,7 cm × 3,3 cm)
Sticky gel



3M™ Foam Monitoring Electrode 2244
1.57" × 1.3" (4 cm × 3,3 cm)
Radiolucent, sticky gel



3M™ Red Dot™ Monitoring Electrode with Foam
Tape and Sticky Gel 2560
1.6" × 1.36" (4 cm × 3,5 cm)



3M™ Red Dot™ Monitoring Electrode
with Foam Tape and Sticky Gel 2570
1.6" × 1.36" (4 cm × 3,5 cm)
Radiolucent, with abrader

Repositionable



3M™ Red Dot™ Repositionable Monitoring
Electrode 2660
1.56" × 1.25" (4 cm × 3,2 cm)
Radiolucent



3M™ Red Dot™ Repositionable Monitoring
Electrode 2670
1.56" × 1.25" (4 cm × 3,2 cm)
Radiolucent, stronger adhesive than 2660

Short Term Diagnostics



3M™ Red Dot™ Resting
EKG Electrode 2330
.8" × 1.2" (2 cm × 2 cm)
Gentle adhesive



3M™ Red Dot™ Resting
EKG Electrode 2352
1.75" × .8" (4,5 cm × 2,2 cm)
Foam, snap style



3M™ Red Dot™ Resting EKG
Electrode 2360
.8" × 1.2" (2 cm × 2 cm)
Repositionable, stronger
adhesive than 2330

Pediatric



3M™ Red Dot™ Monitoring Electrode with
Soft Cloth Tape Backing 2245-50
1.75" dia. (4,4 cm dia.)
Solid gel



3M™ Red Dot™ Pediatric Monitoring Electrode
with 3M™ Micropore™ Tape Backing 2248-50
1.75" dia. (4,4 cm dia.)
Solid gel

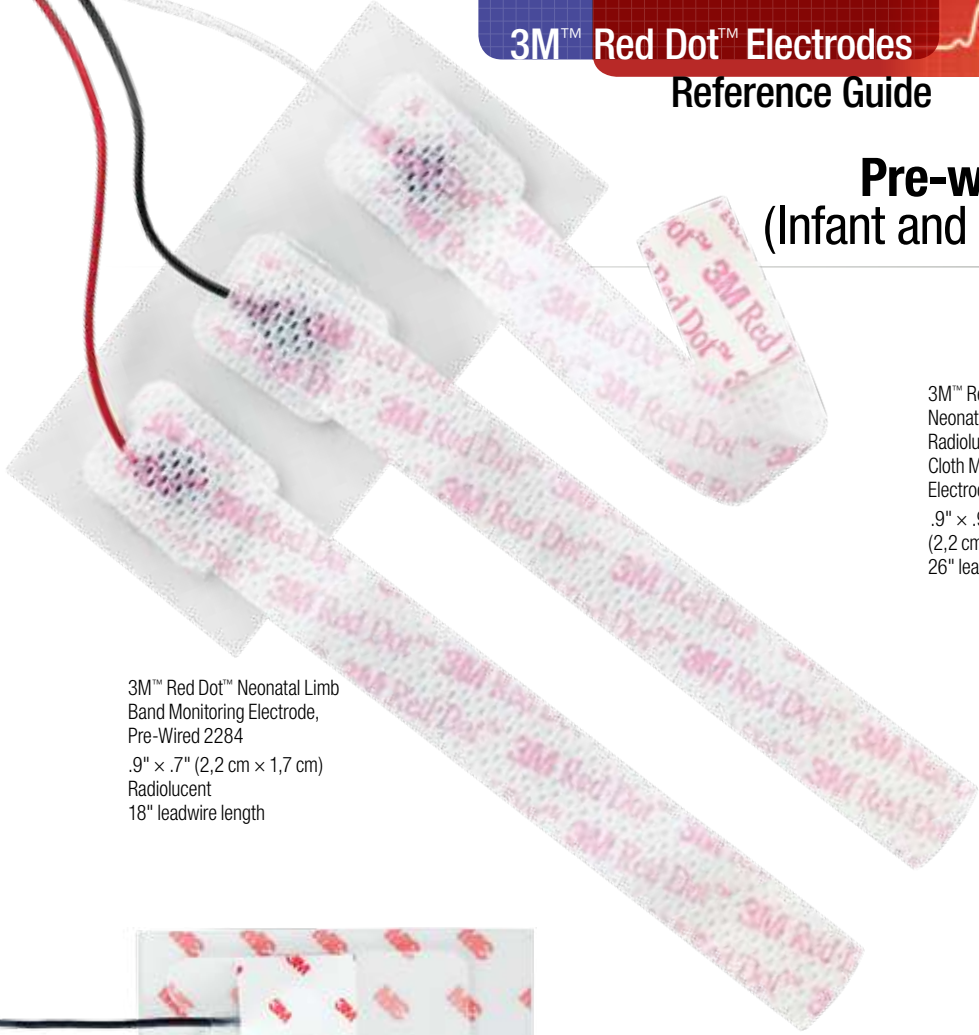
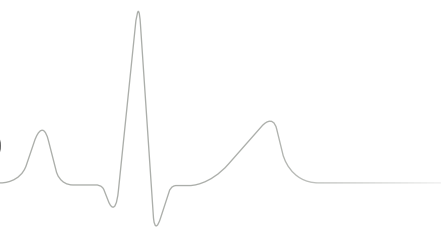


NEW
Available
early 2014

3M™ Red Dot™ ECG Monitoring
Electrode 2268-3
1.25" dia. (3,2 cm dia.)
Conductive adhesive Soft Cloth

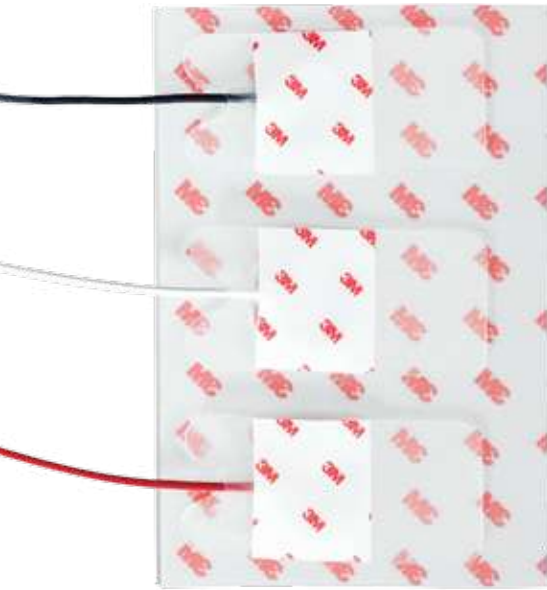
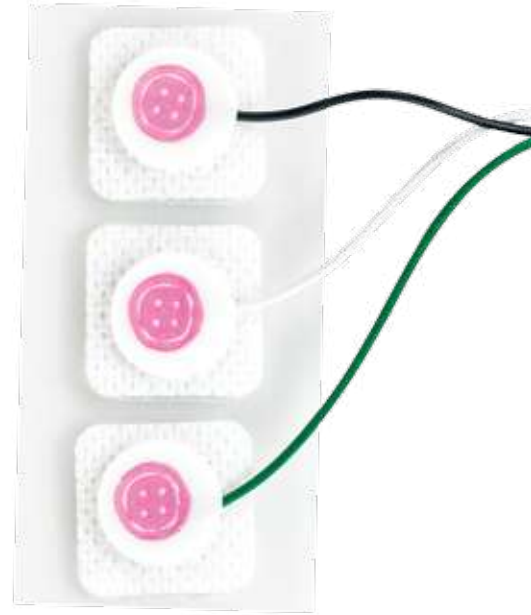
3M™ Red Dot™ Electrodes
Reference Guide

Pre-wired
(Infant and Neonatal)



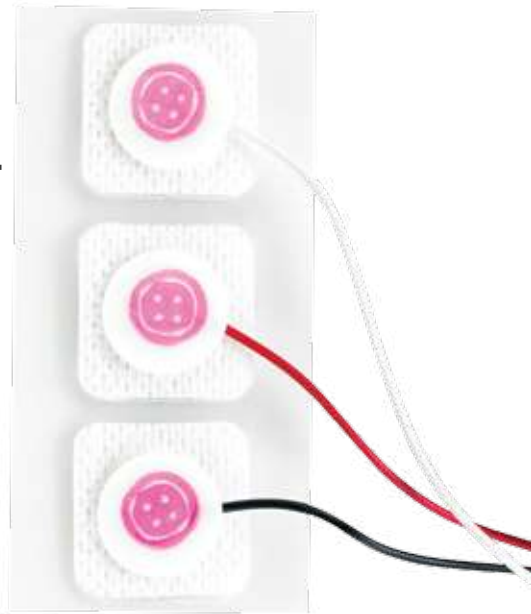
3M™ Red Dot™ Neonatal Limb Band Monitoring Electrode, Pre-Wired 2284
 .9" x .7" (2,2 cm x 1,7 cm)
 Radiolucent
 18" leadwire length

3M™ Red Dot™ Neonatal, Pre-wired, Radiolucent Soft Cloth Monitoring Electrode 2282L
 .9" x .9"
 (2,2 cm x 2,2 cm)
 26" leadwire length



3M™ Red Dot™ Neonatal, Pre-Wired, Radiolucent Monitoring Electrode with Clear Tape 2269T
 .75" x 1.56"
 (1,9 cm x 4 cm)
 22" leadwire length

3M™ Red Dot™ Neonatal, Pre-wired, Radiolucent Soft Cloth Monitoring Electrode 2282
 .9" x .9"
 (2,2 cm x 2,2 cm) 18" leadwire length



3M™ Red Dot™ Infant, Pre-Wired, Radiolucent Monitoring Electrode 2283
 1.3" x .9" (3,3 cm x 2,2 cm)
 18" leadwire length



3M™ Red Dot™ Neonatal, Pre-wired, Non-Radiolucent Monitoring Electrode with Soft Cloth 2280
 .9" x .9" (2,2 cm x 2,2 cm)
 18" metal leadwire



Fragile Skin



3M™ Red Dot™ Soft Cloth Monitoring Electrode 2238
2.4" dia. (6 cm dia.), solid gel



3M™ Red Dot™ Soft Cloth Monitoring Electrode 2255-50
2.4" dia. (6 cm dia.) with abrader, solid gel



3M™ Red Dot™ Soft Cloth Monitoring Electrode 2268-3
1.25" dia. (3,2 cm dia.)
Conductive adhesive



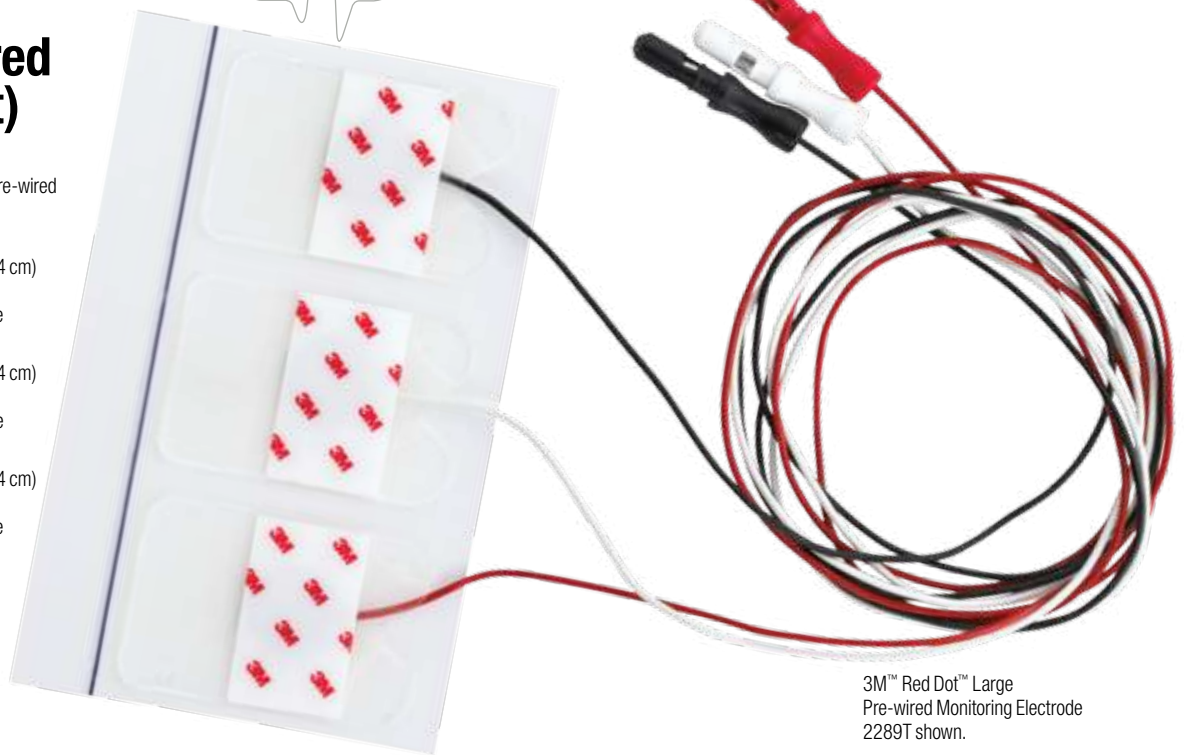
3M™ Red Dot™ Monitoring Electrode with
3M™ Micropore™ Tape Backing 2239
2.4" dia. (6 cm dia.), solid gel



3M™ Red Dot™ Monitoring Electrode with 3M™ Micropore™ Tape Backing 2249-50
2.4" dia. (6 cm dia.) with abrader, solid gel

Pre-wired (Adult)

- 3M™ Red Dot™ Large Pre-wired Monitoring Electrodes
- 2289PA
1.0" × 1.56" (2,5 cm × 4 cm)
5 Lead, Radiolucent
28" disposable leadwire
- 2289PAL
1.0" × 1.56" (2,5 cm × 4 cm)
5 Lead, Radiolucent
48" disposable leadwire
- 2289T
1.0" × 1.56" (2,5 cm × 4 cm)
3 Lead, Radiolucent
28" disposable leadwire



3M™ Red Dot™ Large Pre-wired Monitoring Electrode 2289T shown.

3M™ Red Dot™ Electrodes Reference Guide

Diaphoretic



3M™ Red Dot™ Diaphoretic Foam Monitoring Electrode 2230
2.2" × 2" (5,1 cm × 5,5 cm), solid gel



3M™ Red Dot™ Diaphoretic Foam Monitoring Electrode 2270
2.2" × 2" (5,1 cm × 5,5 cm), solid gel with abrader



3M™ Red Dot™ Diaphoretic Soft Cloth Monitoring Electrode 2231
2.2" × 2" (5,1 cm × 5,5 cm), solid gel



3M™ Red Dot™ Diaphoretic Soft Cloth Monitoring Electrode 2271
2.2" × 2" (5,1 cm × 5,5 cm), solid gel with abrader



3M™ Red Dot™ Clear Plastic Monitoring Electrode 2235
2" dia. (5,1 cm dia.)
Solid gel



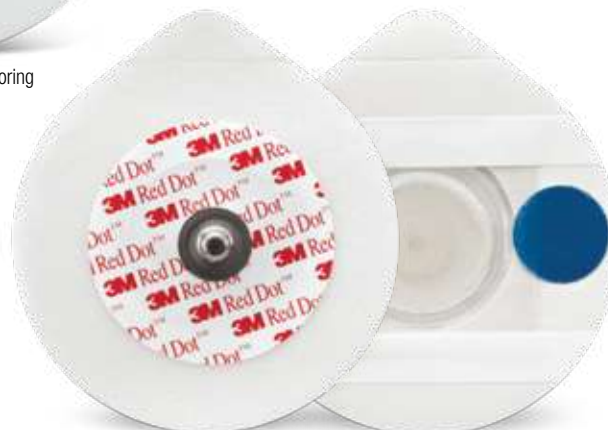
3M™ Red Dot™ Foam Monitoring Electrode 2256-50
2" dia. (5,1 cm dia.)
with wet gel, abrader



3M™ Red Dot™ Foam Monitoring Electrode 2560
1.6" × 1.36" (4 cm × 3,5 cm) with sticky gel



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



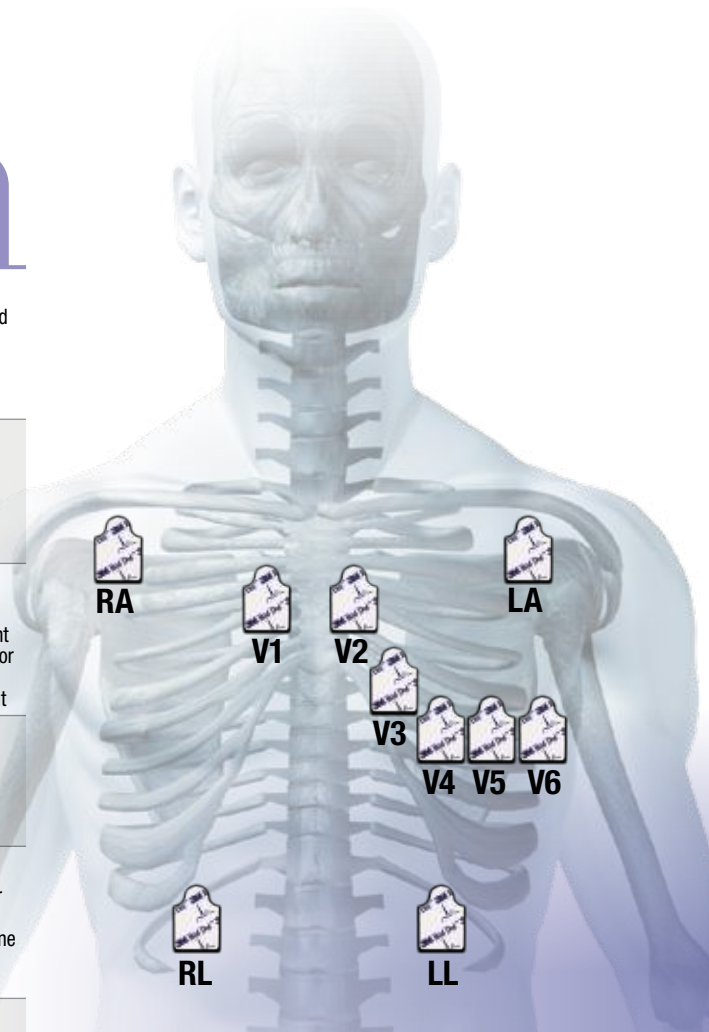
3M™ Red Dot™ Foam Monitoring Electrode 2259
2" dia. (5,1 cm dia.) with solid gel, abrader

See also:
Diaphoretic products 2230 & 2270
Performance Priced product 2570

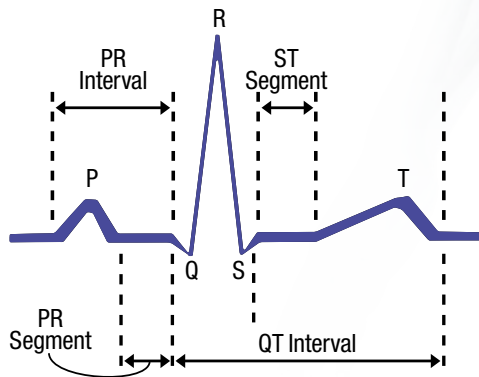
Troubleshooting ECG Traces

Troubleshoot each artifact in order, starting with 1

Artifacts	Impedance Skin	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 ECG 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 the mid-clavicular line
- V5:** Fifth intercostal space between V4 and V6
- V6:** Fifth intercostal space along the mid-axillary line

Ordering Information

Performance Priced Options

Product No.	Description	Packaging
2228	Foam Monitoring Electrode, 1.5 inch × 1.3 inch (3,7 cm × 3,3 cm) with sticky gel	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2228-3	Foam Monitoring Electrode, 1.5 inch × 1.3 inch (3,7 cm × 3,3 cm) with sticky gel	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
2228-5	Foam Monitoring Electrode, 1.5 inch × 1.3 inch (3,7 cm × 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 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 cm × 3,5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2570-3	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4 cm × 3,5 cm) with Sticky Gel and Abrader	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
2570-5	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4 cm × 3,5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case

Repositionable

Product No.	Description	Packaging
2660-3	Repositionable Soft Cloth Monitoring Electrode, 1.56 inch × 1.25 inch (4 cm × 3,2 cm) Radiolucent with Lift Tab	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
2660-5	Repositionable Soft Cloth Monitoring Electrode, 1.56 inch × 1.25 inch (4 cm × 3,2 cm) Radiolucent with Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case
2670-3	Repositionable Soft Cloth Monitoring Electrode, 1.56 inch × 1.25 inch (4 cm × 3,2 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, 1.56 inch × 1.25 inch (4 cm × 3,2 cm) Radiolucent with Aggressive Adhesive and Lift Tab	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case

Short Term Diagnostics

Product No.	Description	Packaging
2330	Resting Tab Style EKG Diagnostic electrode with Gentle Adhesive	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case
2352	Resting Snap Style EKG Diagnostic electrode with Wet Gel	1000 electrodes/case, 10/bag, 100 bag/case
2360	Resting Tab Style EKG Diagnostic electrode with Aggressive Adhesive	4000 electrodes/case, 10/card, 10 card/bag, 40 bag/case

Pediatric

Product No.	Description	Packaging
2245-50	Soft Cloth Monitoring Electrode 1.75 inch dia. (4,4 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
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 (Infant & Neonatal)

Product No.	Description	Packaging
2269T	Neonatal Monitoring Electrode, Pre-Wired with Clear Tape, .75 inch × 1.56 inch (1,9 cm × 4 cm) with 22 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 10 bag/box, 10 box/case
2280	Neonatal Monitoring Electrode, Pre-Wired with Soft Cloth, 0.9 inch × .9 inch (2,2 cm × 2,2 cm) with 18 inch Metal Leadwires	300 electrodes/case, 3/bag, 100 bag/case
2282	Neonatal Monitoring Electrode, Pre-Wired with Soft Cloth, 0.9 inch × .9 inch (2,2 cm × 2,2 cm) with 18 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
2282L	Neonatal Monitoring Electrode, Pre-Wired with Soft Cloth, 0.9 inch × .9 inch (2,2 cm × 2,2 cm) with 26 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
2283	Infant Monitoring Electrode, Pre-Wired with Soft Cloth, 1.3 inch × .9 inch (3,3 cm × 2,2 cm) with 18 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case
2284	Neonatal, Pre-wired Limb Band Monitoring Electrode, .9 inch × .7 inch (2,2 cm × 1,7 cm) with 18 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case

Fragile Skin

Product No.	Description	Packaging
2238	Soft Cloth Monitoring Electrode 2.4 inch dia. (6 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2238-3	Soft Cloth Monitoring Electrode 2.4 inch dia. (6 cm dia.) with Solid Gel and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
2238-5	Soft Cloth Monitoring Electrode 2.4 inch dia. (6 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 5/bag, 200 bag/case
2239	Micropore Paper Tape Monitoring Electrode 2.4 inch dia. (6 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 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 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

Ordering Information

Pre-wired
(Adult)

Product No.	Description	Packaging
2289PA	Clear Tape Monitoring Electrode with Preattached Disposable Leadwire, 1 inch × 1.56 inch (2,5 cm × 4 cm) with 28 inch Radiolucent Leadwires	500 electrodes/case, 5/bag, 100 bag/case
2289PAL	Clear Tape Monitoring Electrode with Preattached Disposable Leadwire, 1 inch × 1.56 inch (2,5 cm × 4 cm) with 48 inch Radiolucent Leadwires	500 electrodes/case, 5/bag, 100 bag/case
2289T	Clear Tape Monitoring Electrode with Preattached Disposable Leadwire, 1 inch × 1.56 inch (2,5 cm × 4 cm) with 28 inch Radiolucent Leadwires	300 electrodes/case, 3/bag, 100 bag/case

Diaphoretic

Product No.	Description	Packaging
2230	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2231	Diaphoretic Soft Cloth Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2270-3	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
2270-5	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 5/bag, 200 bag/case
2270-50	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2271-3	Diaphoretic Soft Cloth Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
2271-5	Diaphoretic Soft Cloth Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 5/bag, 200 bag/case
2271-50	Diaphoretic Soft Cloth Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case

Fluid Resistant

Product No.	Description	Packaging
2230	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel and Lift Tab	1000 electrodes/case, 50/bag, 20 bag/case
2235	Clear Plastic Monitoring Electrode 2 inch dia. (5,1 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 5/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
2237-3	Foam Monitoring Electrode 1.75 inch dia. (4,4 cm dia.) with Solid Gel and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
2237-5	Foam Monitoring Electrode 1.75 inch dia. (4,4 cm dia.) with Solid Gel and Lift Tab	1000 electrodes/case, 5/bag, 200 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
2259-3	Foam Monitoring Electrode 2 inch dia. (5,1 cm dia) with Solid Gel, Abrader and Lift Tab	600 electrodes/case, 3/bag, 200 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
2270-3	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	600 electrodes/case, 3/bag, 200 bag/case
2270-5	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 cm) with Solid Gel, Abrader and Lift Tab	1000 electrodes/case, 5/bag, 200 bag/case
2270-50	Diaphoretic Foam Monitoring Electrode 2.2 inch × 2 inch (5,1 cm × 5,5 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 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 cm × 3,5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 10/strip, 5 strip/bag, 20 bag/case
2570-3	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4 cm × 3,5 cm) with Sticky Gel and Abrader	600 electrodes/case, 3/strip, 1 strip/bag, 200 bag/case
2570-5	Foam Monitoring Electrode, Radiolucent, 1.6 inch × 1.36 inch (4 cm × 3,5 cm) with Sticky Gel and Abrader	1000 electrodes/case, 5/strip, 1 strip/bag, 200 bag/case



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 70-2009-6376-0 HB9675

To learn more about the 3M™ Red Dot™ Electrodes,
 call the **3M Health Care Helpline** at **1-800-228-3957**
 or visit www.3M.com/patientmonitoring.