



# ECG Electrodes

## Product Guide



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# Cardinal Health is a market leader in monitoring, diagnostic, defibrillation and neonatal electrodes.













With over 20 years of hydrogel experience, our high quality gel formulas assist in providing accurate traces. In addition, the lower chloride content in our hydrogels help to minimise skin irritation. With products varying in size, shape and substrate, Cardinal Health has an electrode to address all clinical needs.

## Electrode Selection Guide.




Kendall™ ECG Electrodes – Cloth				
	Product	H99SG	Product	H99LG
	Order Code	<b>31.1996.21</b>	Order Code	<b>31.1995.21</b>
	Description	Round stud, multi-purpose electrode, Ø 55mm	Description	Round, stud, multi-purpose electrode, Ø 55mm
	Special Features	Suitable for sensitive skin	Special Features	Liquid gel
	Product	H59P	Product	H69P
	Order Code	<b>ES40076-</b>	Order Code	<b>ES50281</b>
	Description	Rectangular, full surface hydrogel, monitoring electrode, 38x22mm	Description	Square, full surface hydrogel, monitoring electrode, 22x22mm
	Special Features	Suitable for sensitive skin, Strip of 3	Special Features	As H59P with smaller dimensions
	Product	H49P	Product	BioTac 7600 Cloth Series
	Order Code	<b>ES40030-</b>	Order Code	<b>31043170</b>
	Description	Rectangular, full surface hydrogel, monitoring electrode, 38x38mm	Description	Square, stud, multi-purpose monitoring electrode, 48mmx48mm
	Special Features	Suitable for sensitive skin, Strip of 3	Special Features	Suitable for sensitive skin
Kendall™ ECG Foam Electrodes				
	Product	H34LG	Product	H66LG
	Order Code	<b>31.1345.21</b>	Order Code	<b>31.1663.21</b>
	Description	Round, stud, stress electrode, 50x45mm	Description	Round, stud, diagnostic & stress electrode, liquid gel, Ø 55mm
	Special Features	72 hour wear time, washable, stress & Holter testing		
Kendall™ Tape Electrode				
	Product	700 Clear Tape	Product	750 Clear Tape
	Order Code	<b>22700</b>	Order Code	<b>22750</b>
	Description	Round, general monitoring electrode, Ø 44mm	Description	Round, general monitoring electrode, Ø 44mm
	Special Features	Clear, allows visibility of skin	Special Features	X-ray & MRI compatible, radiolucent stud
	Product	H98SG	Product	H98LG
	Order Code	<b>31.1986.21</b>	Order Code	<b>31.1985.21</b>
	Description	Round, stud, multi-purpose electrode, Ø 60mm	Description	Round, stud, multi-purpose electrode, Ø 60mm
	Special Features	Microporous Tape. Suitable for sensitive skin	Special Features	Microporous Tape. Liquid Gel






## Kendall™ ECG Foam Electrodes – Solid Gel

	Product	H34SG		Product	H914TSG		Product	Medi-Trace™ 200
	Order Code	31.1946.21		Order Code	31.1914821		Order Code	31050522
	Description	Round, universal stud electrode, Ø 45mm		Description	Oval, multi-purpose banana adaptor electrode, 57x34mm		Description	Round, stud, general monitoring electrode, Ø 38mm
	Special Features	X-ray & MRI compatible – strong adhesion		Special Features	X-ray & MRI compatible		Special Features	Packaged in perforated strips
	Product	H92SG		Product	H135SG		Product	Medi-Trace™ 850
	Order Code	31.1925.21		Order Code	31.1355.21		Order Code	22850-
	Description	Oval, multi-purpose stud electrode, 48x34mm		Description	Round, stud, general monitoring electrode, 43x35mm		Description	Rectangle, stud, general monitoring electrode, 35mm x 43mm
	Special Features	Oval design allows sufficient space on torso for placement		Special Features	Strong adhesion		Special Features	Radiolucent X-ray, MRI compatible
	Product	Medi-Trace™ 450		Product	H135TSG		Product	RadioTrace 600
	Order Code	22450		Order Code	31.1355821		Order Code	40000003
	Description	Rectangle, stud, general monitoring electrode, 35mm x 43mm		Description	Round, stud, general monitoring electrodes, Ø 35mm		Description	Round, general monitoring electrode, Ø 38mm
	Special Features	Multiple packaging options		Special Features	As H135SG, including X-ray & MRI compatible		Special Features	Radiolucent X-ray, MRI compatible
	Product	H914SG		Product	H71SG		Product	Medi-Trace™ 530
	Order Code	31.1914.21		Order Code	31.1715.21		Order Code	31013926-
	Description	Oval, multi-purpose banana adaptor electrode, 57x34mm		Description	Square, stud, long term stress electrode, 58 x51mm		Description	Round, stud, general monitoring electrode, Ø 44mm
	Special Features	Oval design compatible with 4mm banana plug		Special Features	Specially designed for cable fixing		Special Features	Pack of 30 loose electrodes, diaphoretic electrode

## Kendall™ Neonatal Pre-Wired Electrodes

	Product	Puppy Dog Clear Tape		Product	Kitty Cat™ Foam 4100 Series		Product	Kitty Cat™ Cloth 1050 Series
	Order Code	31424785		Order Code	30710001		Order Code	31424768
	Description	Rectangular tape, 25mm x 32mm, 61cm leadwire, DIN plug		Description	Round foam, Ø 22mm, 45cm leadwire, DIN plug		Description	Round foam, Ø 25mm, 61cm leadwire, DIN plug
	Special Features	Radiolucent, pre-wired		Special Features	Pre-wired		Special Features	Pre-wired

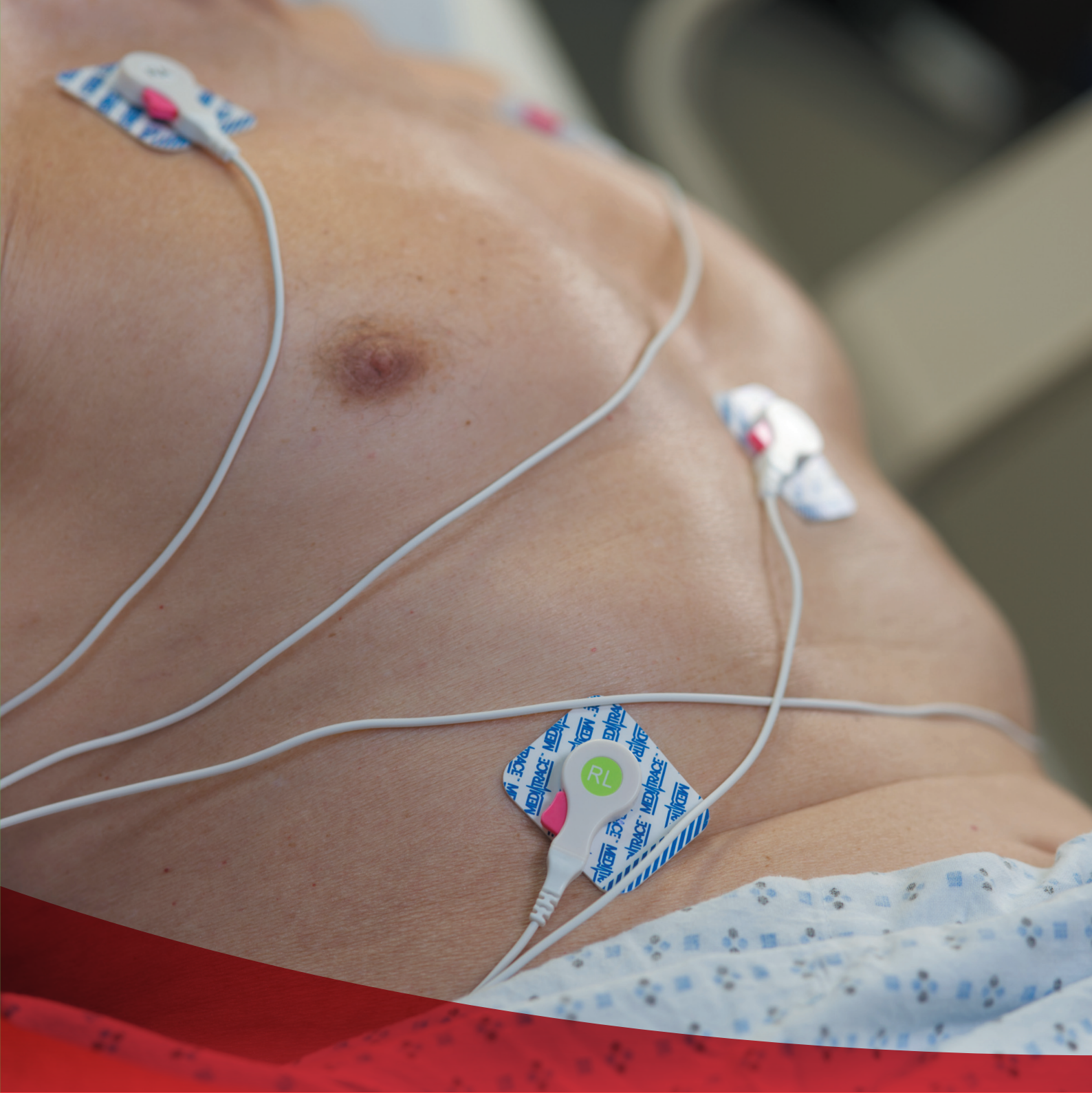
## Kendall™ ECG Electrodes – Smaller Size – Paediatric

	Product	H93SG		Product	H124SG		Product	Medi-Trace™ 100
	Order Code	31.1935.21		Order Code	31.1245.21		Order Code	31118733
	Description	35x26mm		Description	Foam round, Ø 24mm		Description	Round, stud, general monitoring electrode, Ø 30mm
	Special Features	Smaller size than H92SG, suitable for paediatric		Special Features	Smaller size suitable for paediatric		Special Features	Smaller version of Medi-Trace™ 200, suitable for paediatric

## Kendall™ Diagnostic Tab Electrodes

	Product	5500 Tab Electrode		Product	CA610 ECG Tab		Product	5400 Tab Electrode
	Order Code	30807732-		Order Code	31447793		Order Code	31433538-
	Description	Full surface hydrogel, repositionable diagnostic electrode, extra strong adhesion, 22x31mm		Description	Full surface hydrogel repositionable diagnostic electrode, 23mm x 32mm		Description	Full surface hydrogel, repositionable diagnostic electrode, strong adhesion 23x25mm
	Special Features	MRI, X-ray compatible		Special Features	MRI, X-ray compatible		Special Features	MRI, X-ray compatible





## Monitoring Electrodes.

Monitoring Electrodes includes a variety of foam, tape, cloth and radiolucent electrodes to meet every clinical need.



## Foam Electrodes.

- Repel fluids to maximise adhesion (preferred for OR and ER applications)
- Conductive adhesive hydrogels for excellent adhesion and clear, reliable tracings
- Courtesy lift tab for easy placement and removal that may also be used for additional product adhesion/anchoring
- Multiple packaging options available
- Latex free, DEHP free, Mercury free



## Medi-Trace™ 450 and 850 Foam Series.

- Thinner conformable foam substrate.
- Low chloride gel minimises risk of skin irritation for patients with sensitive skin.
- 850 Series is radiolucent to minimise the need to remove electrodes during X-ray.
- Provides quality traces due to low impedance and up to 45 days after pouch is opened.
- Ideal for housewide, general purpose monitoring providing cost savings through standardisation.
- Available in bulk and packs of 3 or 5. Ideal for Ambulance or Crash Carts.



## Ordering Information.

Medi-Trace™ 450 and 850 Foam Series Electrodes

	Code	Description	QTY / Pack	QTY / Case
Non-Radiolucent Electrodes	22450	MT 450	50	1000
	22453-	MT 453	3	600
	22455-	MT 455	5	600
Radiolucent Electrodes	22850-	MT 850	50	1000
	22853	MT 853	3	600
	22855-	MT 855	5	600

\*Product sold in case quantities only.  
MT = Meditrac  
Available in bulk or packs of 3 or 5

## 200 and 600 Foam Series.

### Cost-effective, general monitoring ECG electrodes.

- Smaller size for convenient lead placement.
- Available in bulk and packs of three or five. Ideal for Ambulance and Crash Carts.
- 600 Series is radiolucent to minimise the need to remove electrodes during X-ray.
- Teardrop shape for easy removal.



#### 200 Series

Non-radiolucent  
Ø 38mm



#### 600 Series

Non-radiolucent  
Ø 38mm

### Ordering Information.

#### 200 and 600 Foam Series

	Code	Description	QTY / Pack	QTY / Case*
Non-Radiolucent Electrodes	31050522	MT 200	100	1000
	31078135	MT 230	30	600
	31478368	MT 233	3	600
Radiolucent Electrodes	40000003	RT 630	30	600

## Excel Foam.

- Built-in skin abrader.
- Resealable ziplock bulk pack.
- Radiolucent option minimises the need to remove electrodes during X-ray.
- Teardrop shape.



#### SF3040.50

Radiolucent Foam Electrode  
Ø 44mm

### Ordering Information.

#### Excel Foam

Code	Description	QTY / Pack	QTY / Case*
31452389	SF3040.50	50/resealable pack	500



## ARBO Solid Gel ECG Electrodes – Long-Term Monitoring.

- High quality Ag/AgCl tracing eyelet and press stud for an easy and reliable connection.
- Solid hydrogel provides good adhesive and requires no clean up.
- New fast formula of gel has the ability to further reduce skin impedance on application.

### Ordering Information.

#### ARBO Solid Gel ECG Electrodes – Long-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1925.21	H92SG	50	500
31.1914.21	H914SG	30	300



**H92SG**  
**REF 31.1925.21**

Conductive & adhesive hydrogel. Improved all-round general purpose usage.  
48 x 34mm



**H914SG**  
**REF 31.1914.21**  
**H914TSG**

Disposable ECG electrode, Ag/AgCl sensor, new fast solid hydrogel formula, foam backing, compatible with 4mm banana plug, 48 x 34mm

## ARBO Liquid Gel ECG Electrodes – Short-Term Monitoring.

(up to 24 hours).

- Liquid gel electrodes - due to very low impedance are ideal for emergency applications, such as monitoring during and after defibrillation.
- Reduces the need for skin preparation as liquid gel provides high level of contact with patient's skin – ideal in emergency situations where there is very little time for skin preparation. This may significantly reduce costs and save time.
- Suitable for stress testing and other short-term applications.

### Ordering Information.

#### ARBO Liquid Gel ECG Electrodes – Short-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1663.21	H66LG	30	300



**H66LG**  
**REF 31.1663.21**

Liquid gel Ag/AgCl, foam backing, Ø 55mm

## Medi-Trace™ 530 Foam Series.

Diaphoretic ECG Electrode designed for improved performance in stress and Holter applications.

- Excellent adhesion.
- Available in bulk and packs of three or five electrodes.
- Teardrop shape for easy release and removal.



### 530 SERIES

Non-radiolucent  
Ø 44mm

## Ordering Information.

Medi-Trace™ 530 Foam Series

Code	Description	QTY / Pack	QTY / Pack	QTY / Case*
31013926-	MT 530	30	-	600
31115796	MT 533	3	60	600
31115788	MT 535	5	60	600

## ARBO Multipurpose ECG Electrodes Particularly for Stress Test and Holter Monitoring.



### H34SG REF 31.1946.21

New fast solid hydrogel formula, foam backing, radiolucent carbon eyelet, Ag/AgCl sensor, extra strong adhesive, particularly suitable for stress and Holter testing, abrader, can remain in place during washing/showering, Ø 45mm



### H34LG REF 31.1345.21

Liquid Gel, Ag/AgCl sensor, extra strong adhesive, particularly suitable for stress and Holter testing, foam backing, can remain in place during washing/showering, Ø 45mm



### H91SSG REF 31.1917.21

Ag/AgCl sensor, foam backing, new fast solid hydrogel formula, extra strong adhesive particularly designed for stress test ECG, oval shape for easy placement, economic brand, 48 x 34mm



### H71SG REF 31.1715.21

Ag/AgCl sensor, foam backing, new fast solid hydrogel formula, with 'cutout' for cable fixing, strong stress adhesive, designed especially for stress and Holter Testing ECG, 52 x 58mm

## Ordering Information.

ARBO Multipurpose ECG Electrodes Particularly for Stress Test and Holter Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1946.21	H34SG	30	300
31.1345.21	H34LG	30	300
31.1917.21	H91SSG	50	500
31.1715.21	H71SG	30	300

## Cloth Electrodes.

### 7600 Cloth Series.

#### Cost-effective, general purpose monitoring ECG electrodes.

- Soft non-woven cloth backing for patients with sensitive skin.
- Conformable, low profile and comfortable.
- Square shape. Packed in 10 strips of 5 electrodes.

#### Ordering Information.

##### 7600 Cloth Series Electrodes

Product Code	Description	QTY / Carton	QTY / Case
31043170	7605	50	600



#### 7600 Series

Non-Radiolucent  
48mm x 48mm

### Excel Cloth.

- Built-in skin abrader.
- Resealable ziplock bulk pack.
- Radiolucent option minimises the need to remove electrodes during X-ray.
- Teardrop shape.

#### Ordering Information.

##### Excel Cloth

Code	Description	QTY / Pack
ES40025†	3030 50/resealable pack	500



#### 3030

Radiolucent Cloth  
Electrode  
Ø 44mm

### Soft-E™ Repositionable Cloth Series.

- Full surface conductive adhesive hydrogel is designed for delicate skin and is repositionable without sacrificing adhesion.
- Soft, comfortable spunlace substrate allows moisture to evaporate.

#### Ordering Information.

##### Soft-E™ Repositionable Cloth Series

Code	Description	QTY / Case*
ES40030-	H49P (38mm x 38mm)	30/Resealable pack



#### H49P

Non-Radiolucent  
38mm x 38mm (adult)

## ARBO Liquid Gel ECG Electrodes – Short-Term Monitoring.

(up to 24 hours).

- Liquid gel electrodes - due to very low impedance are ideal for emergency applications, such as monitoring during and after defibrillation.
- Reduces the need for skin preparation as liquid gel provides high level of contact with patient's skin – ideal in emergency situations where there is very little time for skin preparation. This may significantly reduce costs and save time.
- Suitable for stress testing and other short-term applications.

### Ordering Information.

ARBO Liquid Gel ECG Electrodes – Short-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1995.21	H99LG	30	300



**H99LG**  
**REF 31.1995.21**

Liquid gel Ag/AgCl,  
cloth backing,  
Ø 55mm

## ARBO Solid Gel ECG Electrodes – Long-Term Monitoring.

- High quality Ag/AgCl tracing eyelet and press stud for an easy and reliable connection.
- Solid hydrogel provides good adhesive and requires no clean up.
- New fast formula of gel has the ability to further reduce skin impedance on application.

### Ordering Information.

ARBO Solid Gel ECG Electrodes – Long-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1996.21	H99SG	30	300



**H99SG**  
**REF 31.1996.21**

New fast solid hydrogel  
formula, cloth backing,  
Ø 55mm

## Tape Electrodes - Microporous.

### ARBO Solid Gel ECG Electrodes – Long-Term Monitoring.

- High quality Ag/AgCl tracing eyelet and press stud for an easy and reliable connection.
- Solid hydrogel provides good adhesive and requires no clean up.
- New fast formula of gel has the ability to further reduce skin impedance on application.

#### Ordering Information.

ARBO Solid Gel ECG Electrodes – Long-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1986.21	H98SG	30	300



**H98SG**  
**REF 31.1986.21**

New fast solid hydrogel formula, microporous backing  
Ø 60mm

### ARBO Solid Gel ECG Electrodes – Long-Term Monitoring.

(up to 24 hours).

- Liquid gel electrodes - due to very low impedance are ideal for emergency applications, such as monitoring during and after defibrillation.
- Suitable for stress testing and other short-term applications.
- Reduces the need for skin preparation as liquid gel provides high level of contact with patient's skin – ideal in emergency situations where there is very little time for skin preparation. This may significantly reduce costs and save time.

#### Ordering Information.

ARBO Solid Gel ECG Electrodes – Long-Term Monitoring

Code	Description	QTY / Pack	QTY / Case*
31.1985.21	H98LG	30	300



**H98LG**  
**REF 31.1985.21**

Liquid gel Ag/AgCl, microporous backing  
Ø 60mm



## Tape Electrodes - Clear Tape.

### 700 Clear Tape Series.

- Low chloride gel minimises risk of skin irritation in patients with sensitive skin.
- General purpose monitoring electrode provides hospital-wide use including stress testing and Holter monitoring.
- Clear tape allows visibility to the skin, very low profile.
- 750 is radiolucent to minimise the need to remove electrodes during X-ray.
- Teardrop shape. Lift tab facilitates easy removal.



#### 700 TAPE SERIES

Non-Radiolucent  
Ø 44mm

#### 750

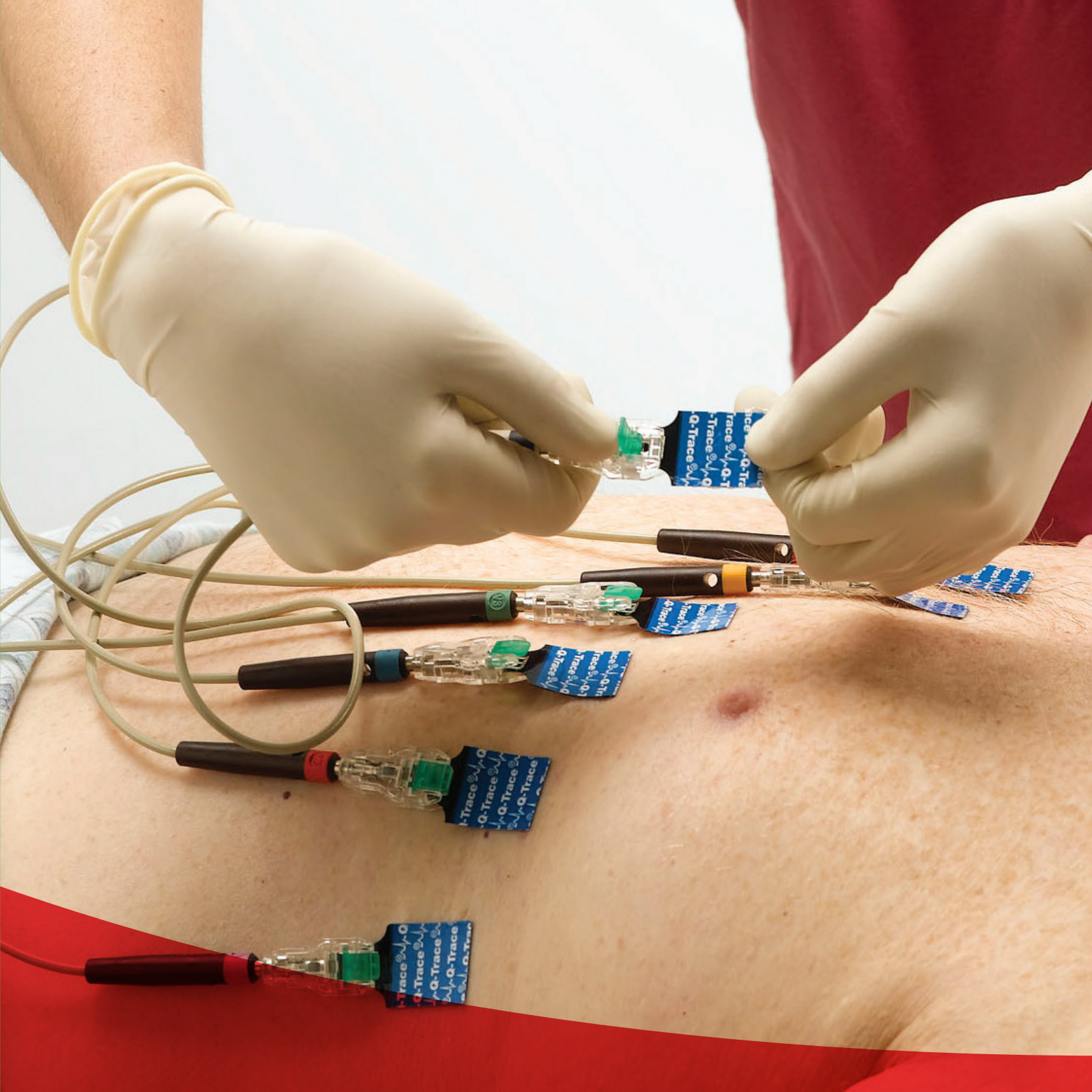
Radiolucent  
Ø 44mm

## Ordering Information.

### 700 Clear Tape Series

Code	Description	QTY / Pack	QTY / Case*
Non-Radiolucent Electrodes			
22700	MT 700	50	1000
22733	MT 733	3	600
22735	MT 735	5	600
Radiolucent Electrodes			
22750	MT 750	50	1000





## Diagnostic Electrodes.

Cardinal Health offers a variety of tab electrode designs to accommodate virtually all resting ECG applications.

## Diagnostic Electrodes.

### Diagnostic Electrodes.

- Conductive adhesive hydrogel for excellent adhesion and clear, reliable tracings.
- Silver/Silver Chloride (Ag/AgCl) sensing system is defibrillation recoverable.
- Variety of shapes, sizes and substrates to accommodate different skin types and applications.
- Latex free, DEHP free, Mercury free.

### Ordering Information.

#### Diagnostic Electrodes

Code	Description	QTY / Pack	QTY / Case
31433538-	Kendall™ 5400	100	1000
30807732-	Kendall™ 5500	100	2000
31447793	Kendall™ CA610	100	1000



#### KENDALL™ 5400 DIAGNOSTIC ECG TAB

The 5400 sets the industry standard for resting ECG tab electrodes. This tab electrode features our most popular level of adhesion suitable for most diagnostic applications, 23mm x 25mm



#### KENDALL™ GOLD 5500 DIAGNOSTIC ECG TAB

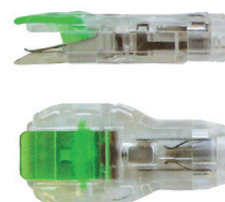
The 5500 tab electrode features our highest tack adhesive gel providing maximum adhesion, 22mm x 31mm



#### KENDALL™ CA610 DIAGNOSTIC ECG TAB

Offers a distinctive shape and a broader tab. The clean vinyl substrate permits easy detection of any potential skin reaction, 23mm x 32mm

## Electrode TAB Adaptors.



### Ordering Information.

#### Electrode TAB Adaptors

Code	Description	Qty / Pack
22660A	Astro Trace Clip A34 TAB Adapter	10

#### ASTRO TRACE CLIP A34 TAB ADAPTER REF 22660A

Universal connector fit TAB or flat electrodes to adapt 4mm banana plug cables to, securely fixing the electrode, light weight, snap, compact





## Paediatric Electrodes.

Cardinal Health offers a range of Paediatric and Neonatal Electrodes with a patented conductive adhesive hydrogel designed to minimise irritation to delicate newborn skin whilst providing the required adhesion.



## Paediatric Electrodes.

### 100 Foam Series.

- Designed to meet special paediatric size requirements for easy lead placement.
- Foam substrate is flexible, conformable and fluid resistant.
- Teardrop shape - 30mm diameter for easy release and removal.



#### 100 SERIES

Non-Radiolucent  
Ø 30mm

### Ordering Information.

#### 100 Foam Series

Code	Description	QTY / Carton*	QTY / Case*
31118733	MT 100	100	1000
31112496	MT 130	30	600

## Kendall/ARBO ECG Long-Term Monitoring Electrodes.

Smaller Sizes, Suitable for Paediatric, Neurological and Specialist Applications.



#### H135SG REF 31.1355.21

Ag/AgCl sensor with press-stud connector, fast solid hydrogel formula, foam backing. Ø 35mm



#### H135TSG REF 31.1355821

As H135SG but equipped with radiolucent carbon eyelet, suitable for MRI and all other X-ray applications. Ø 35mm



#### H124SG REF 31.1245.21

Ag/AgCl sensor, press-stud connector, new fast solid hydrogel formula, foam backing. Small enough for neurological or paediatric use. Ø 24mm



#### H93SG REF 31.1935.21

Ag/AgCl sensor, press-stud connector, new fast solid hydrogel formula, foam backing. Small enough for neurological or paediatric use. 35 x 26mm

### Ordering Information.

#### Kendall/ARBO ECG Long-Term Monitoring Electrodes

Code	Description	QTY / Pack	QTY / Case*
31.1355.21	H135SG	50	500
31.1355821	H135TSG	50	500
31.1245.21	H124SG	50	500
31.1935.21	H93SG	50	500

## Soft-E™ Repositionable Cloth Series.

- Full surface conductive adhesive hydrogel is designed for delicate skin and is repositionable without sacrificing adhesion.
- Soft, comfortable spunlace cloth substrate allows moisture to evaporate.



### Ordering Information.

#### Soft-E™ Repositionable Cloth Series

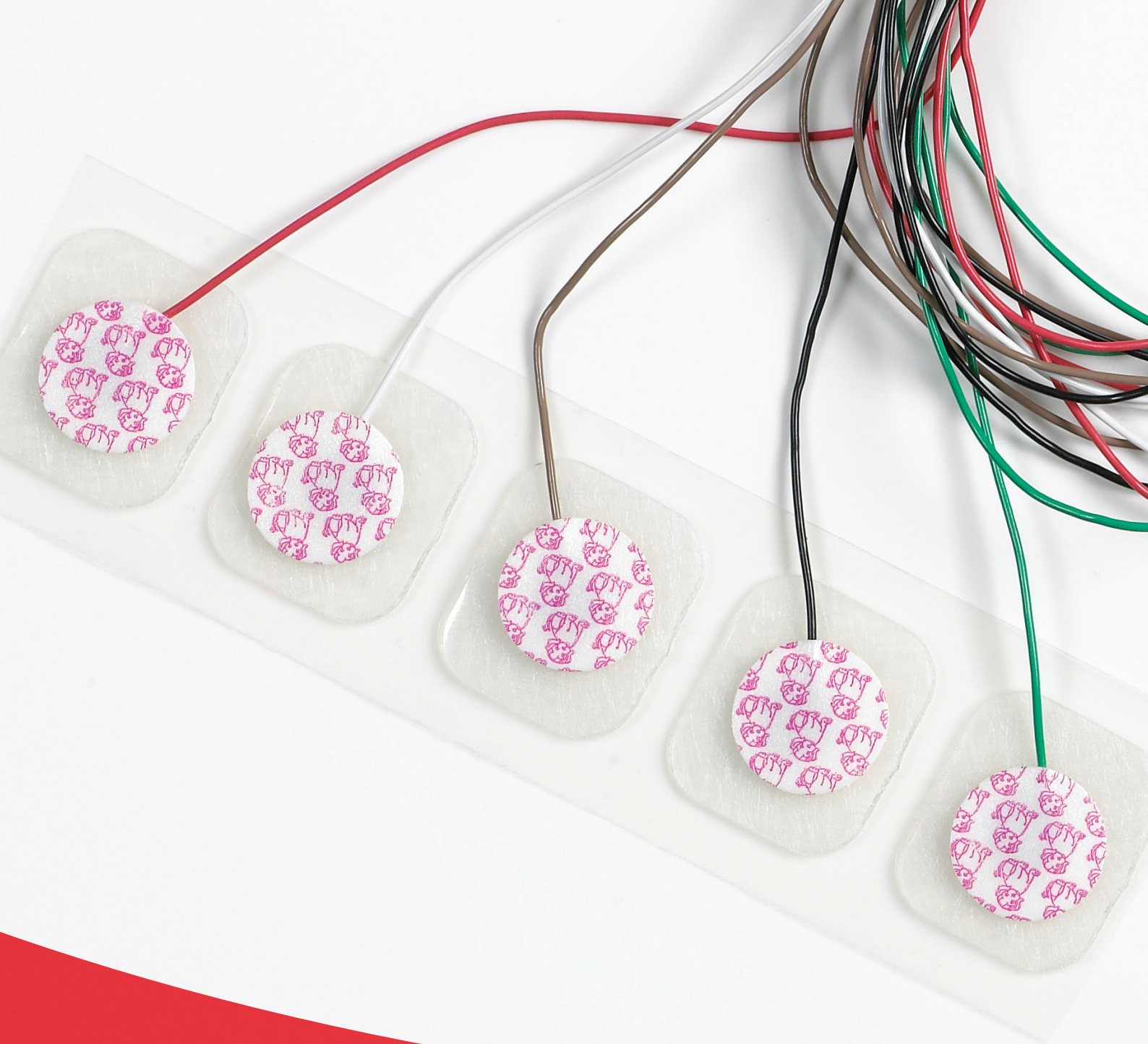
Code	Description	QTY / Carton*	QTY / Case*
ES40076-	H59P (38mm x 22mm)	30/resealable pack	450
ES40281-	H69P (22mm x 22mm)	30/resealable pack	450

#### H59P

Non-Radiolucent  
38mm x 22mm  
(PAEDIATRIC)

#### H69P

Non-Radiolucent  
22mm x 22mm  
(INFANT)



## Neonatal Electrodes.

Kendall™ Neonatal pre-wired electrodes are designed specifically for use with neonatal patients. Neonatal pre-wired electrodes use a conductive adhesive hydrogel which provides firm adhesion while minimising irritation to delicate newborn skin.

## Tape Series.

### Puppy Dog™ Radiolucent Pre-Wired Clear Tape.



#### Ordering Information.

Puppy Dog™ Radiolucent Pre-Wired Clear Tape

Code	Description	QTY / Pack	QTY / Case
31424780	1041PTS	3	300
31424785	1042PTS	3	300
31424786	1042PTS54	5	500

#### 1041PTS

Radiolucent wires  
Ø 25mm

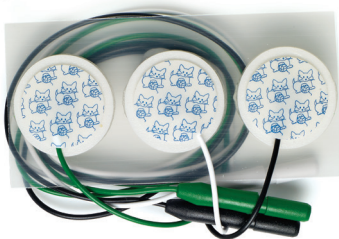
#### 1042PTS + 1042PTS54

Radiolucent wires  
25mm x 32mm

## Foam 4100 Series.

### Kitty Cat™ Non-Radiolucent Pre-Wired Foam.

- Foam substrate repels fluids.
- 45cm leadwire length with DIN plug.
- Two shapes: Round, Oval.



#### Ordering Information.

Foam 4100 Series Kitty Cat™ Non-Radiolucent Pre-Wired Foam

Code	Description	QTY / Carton*	QTY / Case*
FOAM (3 per pack)			
30710001	4103	75	300
31086575	4105	75	300

#### 4103

Non-Radiolucent  
Ø 22mm

#### 4105

Non-Radiolucent  
22 x 32mm

## Cloth Series.

### Pre-Wired 1050/1051 Cloth.

- Soft Spunlace cloth substrate.
- 61cm leadwire length with DIN plug.
- Available with or without radiolucent wires.

#### Ordering Information.

Cloth Series Pre-Wired 1050/1051 Cloth

Code	Description	QTY / Pack	QTY / Case*
31424768	1050NPSM non-radiolucent wire	3	300
31424743	1051NPSM radiolucent wire	3	300



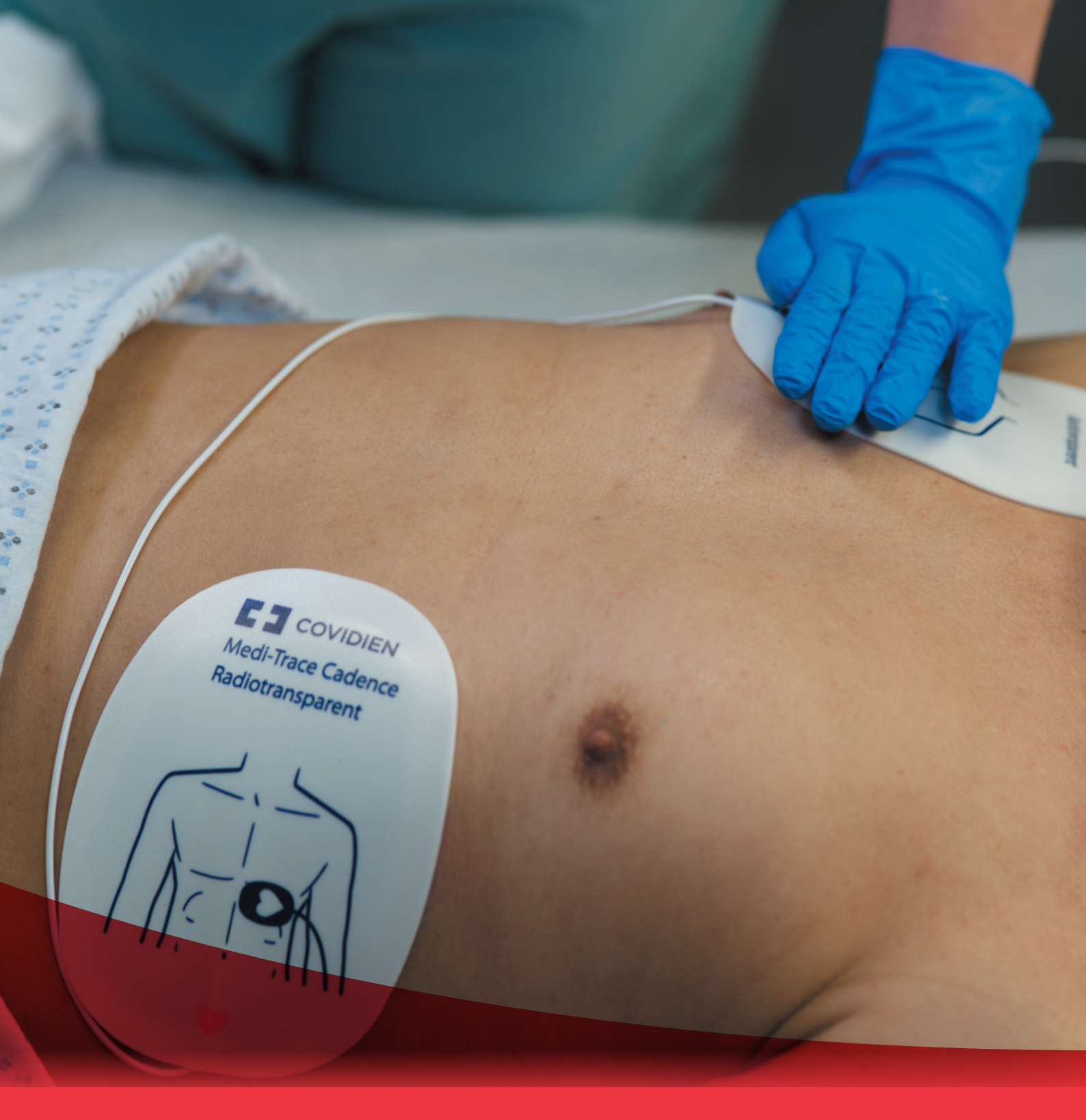
#### 1051NPSM

Radiolucent wire  
Ø 25mm

#### 1050NPSM

Non-Radiolucent  
wire Ø 25mm



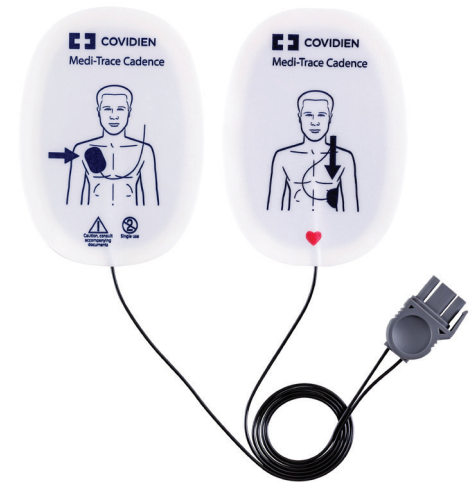


## Defibrillation Electrodes.

Cardinal Health provides a range of Medi-Trace™ defibrillation electrodes that has unique features to help minimise skin irritation whilst providing a high level of adhesion. Cardinal Health's Medi-Trace™ defibrillation electrodes product range comes available with connectors for all the most commonly used defibrillators.

## Medi-Trace™ Cadence An Innovative Design in Multifunction Defibrillation Electrodes.

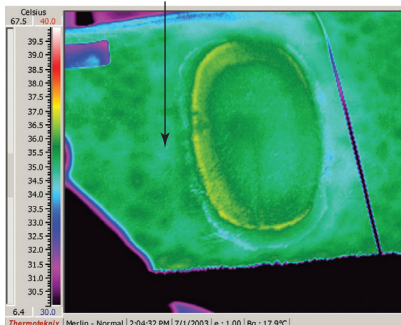
- Gradient technology combined with an oval shape reduces the risk of skin irritation.
- Radio transparent (RTS) pads and wires range available.
- Extended leadwire length.
- Aggressive conductive hydrogel maximises adhesion and electrical contact.
- Complete line of adult, paediatric and RTS products.
- Connects directly to defibrillator cables; no adapters or cable manipulation required.
- Latex free, DEHP free, Mercury free. FOA approved for 2011, Philips, Physio Control.



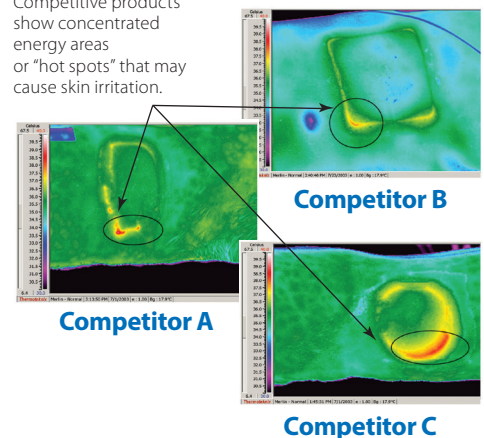
### Thermogram Comparisons.

A gradient technology is applied to the silver/silver chloride (Ag/AgCl) composition of Medi-Trace™ Cadence electrodes resulting in a more uniform distribution of current under the electrode during use.

Medi-Trace™ Cadence electrodes clearly illustrate the benefit of a more uniform distribution of current.

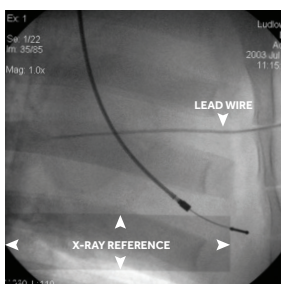


Competitive products show concentrated energy areas or "hot spots" that may cause skin irritation.

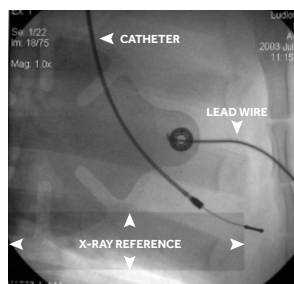


### Medi-Trace™ Cadence.

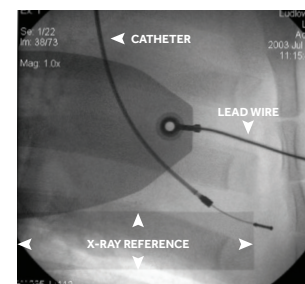
\* Thermograms were taken 3.60 seconds after defibrillation using a biphasic defibrillator.



**Medi-Trace™  
Cadence RTS**



**ZOLL Pro-Padz™\*  
Bi-Phasic**



**Philips Heartstart™\*  
Radiolucent**

(2) X-rays were taken at 64 kVp  
X-ray reference is aluminum bar at 64 kVp



## Medi-Trace™ Cadence Defibrillation Electrodes.

All packaging is colour coded and contains connector illustrations to allow for quick and easy identification of product and age group (adult or paediatric).

Medi-Trace™ Cadence-PC Electrodes allow clinicians to pre-connect directly to the defibrillator prior to use. May be preferred for crash carts and emergency situations.



**Physio-Control**



**ZOLL**



**Philips**



**Philips (HP) Barrel**

## Ordering Information.

Medi-Trace™ Cadence (1 pair per pack)

Product Code	May be used in place of:	QTY*	RT/RL
22770R-	ZOLL 8900-2100-01, 8900-4005, 8900-2303-01, 8900-2055	10	RT
22770P	ZOLL Paediatric 8900-2065, 8900-3000-01	5	RT
22660R-	Philips M3713A, M3716A & M3718A, DP2, DP6	10	RT
22661R	Philips (HP) Barrel Connector M3501A, M35021A	10	RT
22661P	Philips (HP) Barrel Connector Paediatric M3504A, M3503A, M3504A	5	RT
22550P-	Physio-Control Paediatric 11996-000093	5	RT
22550R-	Physio-Control RTS 11996-000090	10	RT
22550A-	Physio-Control 11996-000091	10	RL

Medi-Trace™ Cadence-PC

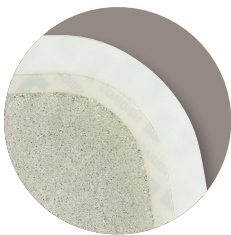
Product Code	May be used in place of:	QTY*	RT/RL
22770PC	ZOLL 8900-4003	10	NR
22661PC	Philips (HP) Barrel Connector M3501A & M3502A	10	NR
22660PC	Phillips Heartstart Adult Preconnect Pads 989803166021	10	NR
22550PC	Physio-Control 11996-000017 (3202674-001)	10	NR

\*Product sold in case quantities only.

NR = Non-Radiotransparent RT = Radiotransparent RL = Radiolucent

# Standard Medi-Trace™ Defibrillation Electrodes.

- Functionally equivalent to various other brands of defibrillation electrodes (see table).
- Provides standardisation for all defibrillation needs.
- Latex free, DEHP free, Mercury free.



1310P



1410Z



1010P

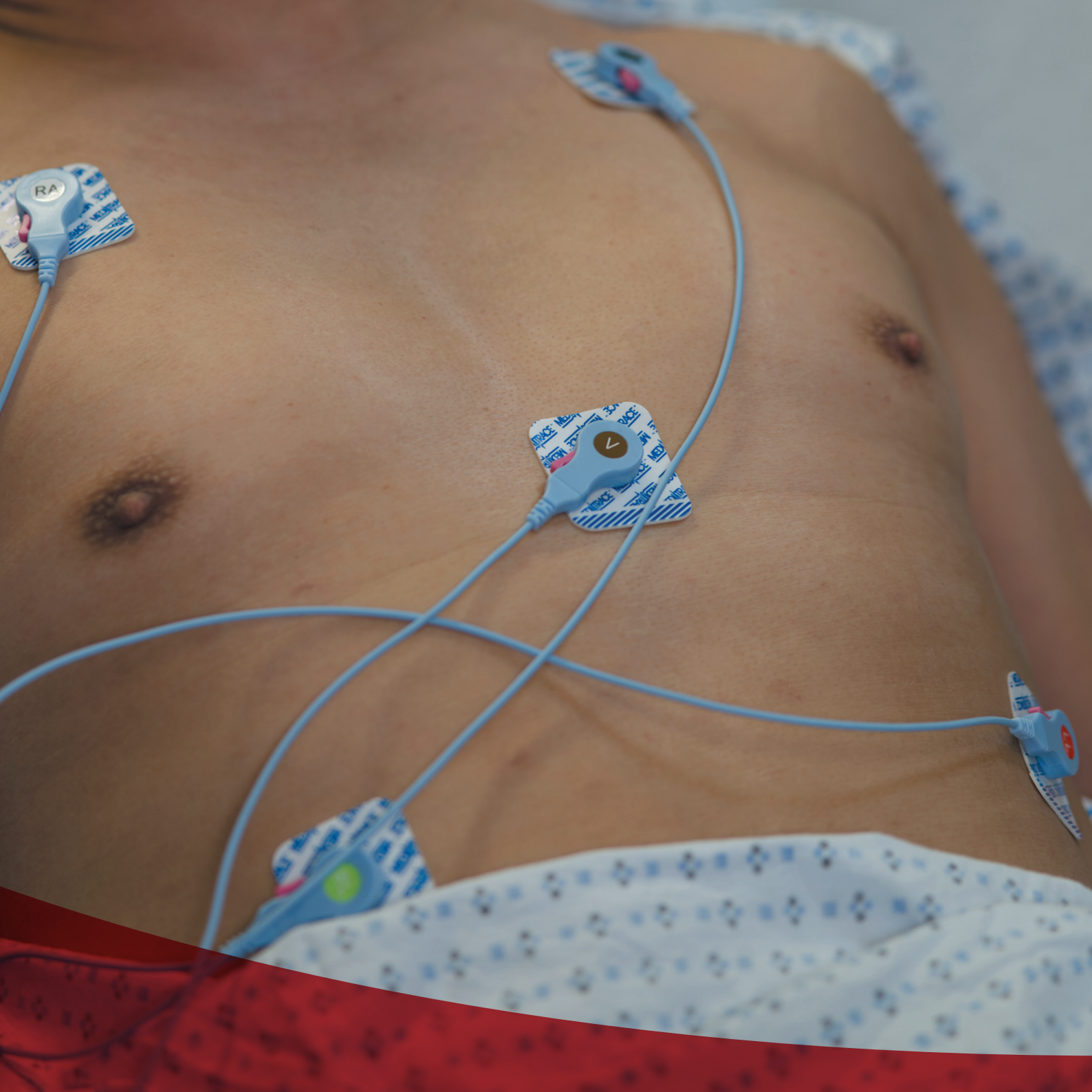
## Ordering Information.

Standard Medi-Trace™ Defibrillation Electrodes

Product Code	Description	Compatible To:	QTY*	RT/RL
31319281	1310P	Physio-Control	10	RL
31469219	1410Z	ZOLL Multifunction Pads	10	RL
31177705	1010P	Physio-Control 11996-000092	10	RL

\*Product sold in case quantities only.

NR = Non-Radiotransparent    RT = Radiotransparent    RL = Radiolucent



## Kendall™ Disposable Leads.

Cardinal Health offers a range of universal single patient use ECG cable and lead wire system to help reduce the risk of cross contamination and improve patient care. Cardinal Health offers a range of adaptors that are compatible with the most commonly used ECG monitors.



## Kendall™ DL Cable and Lead Wire System.

The Kendall™ DL disposable ECG cable and lead wire system delivers personalised patient care.

Our innovative single-patient solution stays with patients for as long as they need it — from admission to discharge — as they make their journey through the care continuum.

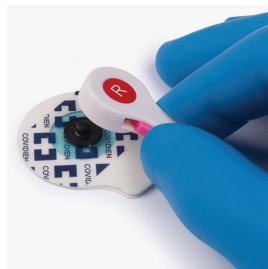
### Single patient use.

Reduces risk of cross-contamination and enhances personal hygiene.



### Patented technology.

Clinically proven to reduce the risk of 'leads off' false alarms.<sup>1</sup>



### Dual Connect.

One set of leads for bedside and telemetry monitors.



### Disposable Patient-To-Monitor and Lead Wire System.

Reduces risk of cross-contamination.

### Patented Push-Button Design.

Gentle attachment allows for improved patient comfort.



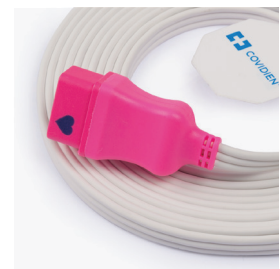
### Secure Attachment.

Reduces pop-off,<sup>2</sup> which may result in false clinical alarms



### Lightweight Design.

For patient comfort.



### Peelable Ribbon Design.

Customisable to fit any patient, reduces wire tangling.

### Fully Shielded.

Reduces electromagnetic interference.

### Dual-Connect Option.

Connects interchangeably with bedside or telemetry monitors using one set of leads.

### Standardised Connections.

Can be connected to most monitors using adaptors. Adaptors are available for 3, 5 and 10 lead monitoring.



**33512 (Fits Philips)**



**33525 (Fits Draeger)**

<sup>1</sup> Albert et al (3013) "Randomized Controlled Trial of Differences in Artifact/Noise in Disposable versus Reusable Electrocardiography" Abstract presented at the AACN National Teaching Institute, Boston, MA May 21, 2013. Abstract Wires.

<sup>2</sup> Coggins S, Lead Wire Retention for Kendall™ DL Disposable Cable and Lead Wire System, [www.patientcareedu.com/ImageServer.aspx?contentID=28348&contentType=application/pdf](http://www.patientcareedu.com/ImageServer.aspx?contentID=28348&contentType=application/pdf); accessed 17th June 2014.



## Kendall™ DL Cable and Lead Wire System.

The Cardinal Health range of Kendall™ DL Disposable ECG Cables and Lead Wire Systems.

### Ordering Information

Kendall™ DL Cable and Lead Wire System

#### Lead Sets

33103	Kendall™ DL Disposable Cable and Lead Wire System (3 Lead Set) x10
33105	Kendall™ DL Disposable Cable and Lead Wire System (5 Lead Set) x 10
33110	Kendall™ DL Disposable Cable and Lead Wire System (10 Lead Set, V and chest leads) x 5
33111	Kendall™ DL Disposable Cable and Lead Wire System (5 Lead Set, V leads) x 10

#### Telemetry Lead Sets

33112-	Kendall™ DL Disposable Direct Connect x 10 For use with 5 Lead Telemetry System manufactured by GE Medical Systems Information Technologies, Inc., under its trademark ApexPro™*
33113	Kendall™ DL Disposable Direct Connect x 10 For use with 5 Lead Telemetry System manufactured by Koninklijke Philips Electronics N.V. under its trademark Veridia™*
33114	Kendall™ DL Disposable Lead System x 10 For use with 5 Lead Telemetry Systems manufactured by Koninklijke Philips Electronics N.V. under its trademark IntelliVue™*
33125-	Kendall™ DL Disposable Lead System x 10 For use with 6 Lead CH Telemetry System manufactured by GE Medical Systems Information Technologies, Inc., under its trademark ApexPro™*
33132-	Kendall™ DL Disposable Cable and Lead Wire System x 10 For use with 5 Lead Draeger Medical, Inc., Dual Pin Cables
33133	Kendall™ DL Disposable Cable and Lead Wire System x 10 For use with 5 Lead Spacelabs Healthcare Telemetry Systems
33134	Kendall™ DL Disposable Cable and Lead Wire System x 10 For use with 6 Lead Nihon Kohden Telemetry Systems
33147	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 5 Lead Philips IntelliVue™ MX40 Telemetry System - Direct Connect
33148	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 6 Lead Philips IntelliVue™ MX40 Telemetry System - Direct Connect
33149	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 5 Lead Philips IntelliVue™ MX40 Telemetry System, Compatible With Nellcor or Masimo SpO2 Sensors - Direct Connect
33150	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 6 Lead Philips IntelliVue™ MX40 Telemetry System, Compatible With Nellcor or Masimo SpO2 Sensors - Direct Connect
33151	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 5 Lead Philips IntelliVue™ MX40 Telemetry System, Compatible With Philips SpO2 Sensors - Direct Connect
33152	Kendall™ DL Disposable Cable and Lead Wire System x 10 For Use with 6 Lead Philips IntelliVue™ MX40 Telemetry System, Compatible With Philips SpO2 Sensors - Direct Connect

#### Dual Connect Lead Wires

33135T	Kendall™ DL Disposable Dual Connect Cable and Lead Wire System (5 lead) x 5
33136T	Kendall™ DL Disposable Lead Wire System Dual Connect lead set only - 5-lead x 10
33137T	Kendall™ DL Disposable Lead Wire System Dual Connect lead set only - 3-lead x 10
33145T	Kendall™ DL Disposable Lead Wire System Dual Connect Cable only x 10

#### Radiolucent Disposable Lead Sets

33136R36	Kendall™ DL Disposable Lead Set 5 Lead, Radiolucent 36" (0.9m) x10
33136R72	Kendall™ DL Disposable Lead Set 5 Lead, Radiolucent 72" (1.8m) x10
33136RV36	Kendall™ DL Disposable Lead Set 5 V Lead, Radiolucent 36" (0.9M) x10

## Kendall™ DL Cable and Lead Wire System.

The Cardinal Health range of Kendall™ DL Adaptors.

### Ordering Information.

Adaptors		Adaptors	
33500-	Kendall™ DL 6 Pin Adaptor (5 Lead, No Resistors)		Kendall™ DL Adaptor (5 Lead)
33501	Kendall™ DL 6 Pin Adaptor (3 Lead (1316), No Resistors)	33525T-	For use with dual-pin bedside cables manufactured by Draeger Medical Inc.
33502	Kendall™ DL 6 Pin Adaptor (3 Lead (1355), No Resistors)		Kendall™ DL Adaptor (5 Lead)
33503	Kendall™ DL 6 Pin Adaptor (5 Lead, Resistors)	33526T-	For use with Telemetry Systems manufactured by Koninklijke Philips Electronics N.V. under its trademark IntelliVue™*
33504	Kendall™ DL 6 Pin Adaptor (3 Lead, Resistors)		Kendall™ DL Adaptor (5 Lead)
33505	Kendall™ DL 11 Pin Adaptor For use with 12 Lead monitors manufactured by GE Medical Systems Information Technologies, Inc.	33527T-	For use with Telemetry Systems manufactured by Mindray DS USA, Inc., under its trademark Panorama™*
33506	Kendall™ DL 11 Pin Adaptor For use with 3/5 Lead monitors manufactured by GE Medical Systems Information Technologies, Inc.	33528	Kendall™ DL Adaptor (12 Lead) For use with 12 pin connector monitors manufactured by Koninklijke Philips Electronics N.V. under its trademark IntelliVue™*
33507	Kendall™ DL 12 Pin Adaptor For use with 12 pin connector monitors manufactured by Koninklijke Philips Electronics N.V.	33530T-	Kendall™ DL Adaptor For use with 5 or 6 Lead Telemetry Systems manufactured by Draeger Medical, Inc. under its trademark Infinity™*
33508	Kendall™ DL 8 Pin Adaptor For use with 8 pin connector monitors manufactured by Koninklijke Philips Electronics N.V.	33531	Kendall™ DL Adaptor For use with 11 pin, 3 Lead monitors manufactured by GE Medical Systems Information Technologies, Inc.
33509	Kendall™ DL 17 Pin Adaptor For use with 5 Lead monitors manufactured by Spacelabs Medical, Inc.	33532T-	Kendall™ DL Adaptor For use with 6 CH Lead Telemetry Systems manufactured by GE Medical Systems Information Technologies, Inc., under its trademark ApexPro™*
33510	Kendall™ DL 17 Pin Adaptor For use with 3 Lead monitors manufactured by Spacelabs Medical, Inc.		Kendall™ DL Adaptor
33511	Kendall™ DL Adaptor For use with 12 Lead monitors manufactured by GE Medical Systems Information Technologies, Inc., under its trademark Hellige™*	33533	For use with FH 6 Lead Telemetry Systems manufactured by GE Medical Systems Information Technologies, Inc., under its trademark ApexPro™*
33512	Kendall™ DL Adaptor For use with 12 Lead monitors manufactured by Hewlett Packard under its trademark Pagewriter™*	33534	Kendall™ DL Adaptor For use with Telemetry Systems manufactured by Nihon Kohden
33518	Kendall™ DL Adaptor For use with 12/20 5 lead monitors manufactured by Physio-Control, Inc. under its trademark Lifepak™*	33536	Kendall™ DL Adaptor Can be used with Telemetry Systems manufactured by GE Medical Systems Information Technologies, Inc., under their trademarks MAC™* 5000 and MAC™* 5500
33519	Kendall™ DL Adaptor For use with 12/20 3 lead monitors manufactured by Physio-Control, Inc. under its trademark Lifepak™*	33541-	Kendall™ DL Adaptor (5 Lead) For use with Telemetry Systems manufactured by Phillips Electronics N.V. under its trademark IntelliVue™* MX40
33520	Kendall™ DL Adaptor For use with 10 pin, 5 Lead monitors manufactured by GE Healthcare Finland Oy under its trademark Datex-Ohmeda™*	33542-	Kendall™ DL Adaptor (6 Lead) For use with Telemetry Systems manufactured by Phillips Electronics N.V. under its trademark IntelliVue™* MX40
33521	Kendall™ DL Adaptor For use with 10 pin, 3 Lead monitors manufactured by GE Healthcare Finland Oy under its trademark Datex-Ohmeda™*	33546-	Kendall™ DL Adaptor (6 Lead) with SpO <sub>2</sub> For use with Telemetry Systems manufactured by Phillips Electronics N.V. under its trademark IntelliVue™* MX40
33522T-	Kendall™ DL Adaptor (5 Lead) For use with Telemetry Systems manufactured by Koninklijke Philips Electronics N.V. under its trademark Viridia™*	33545-	Kendall™ DL Adaptor (5 Lead) with SpO <sub>2</sub> For use with Telemetry Systems manufactured by Phillips Electronics N.V. under its trademark IntelliVue™* MX40
33523T-	Kendall™ DL Adaptor (5 Lead) For use with Telemetry Systems manufactured by GE Medical Systems Information Technologies, Inc., under its trademark Apex™*	33544-	Kendall™ DL Adaptor (6 Lead) with SpO <sub>2</sub> For use with Telemetry Systems manufactured by Nellcor
33524T-	Kendall™ DL Adaptor (5 Lead) For use with Telemetry Systems manufactured by Spacelabs Medical Inc.	33543-	Kendall™ DL Adaptor (5 Lead) with SpO <sub>2</sub> For use with Telemetry Systems manufactured by Nellcor



Electrode Gels.



## Gels and Pastes.

### Aquasonic Gel.

- Improves trace quality
- Improves electrodes adhesion
- Reduces number of artefacts through reduced skin impedance
- Cleans the skin

### Ordering Information.

Gels and Creams

Code	Description	QTY / Case
30592037	Parker 01-08 Aquasonic Gel 0.25L	12 Each
30592052	Parker 01-50 Aquasonic Gel 5.0L	1 Each
30936127	Parker 01-01 Aquasonic Sterile 20g	48 Each



Parker 01-08 Aquasonic Gel 0.25L

### Nuprep Skin Prepping Gel.

Nuprep is a mild abrasive gel that strips away dry surface skin and moistens the corneum skin layer. Gently applied, Nuprep Gel improves conductivity and helps achieve high quality tracings.

### Ordering Information.

Nuprep Skin Prepping Gel

Code	Description	QTY / Case
30806726	Nuprep abrasive electrode gel	6



Nuprep Abrasive Electrode Gel

### Ten20™ Conductive EEG Paste.

Ten20 is a conductive and adhesive paste specifically formulated for use with non disposable neurodiagnostic electrodes.

### Ordering Information.

Ten20™ Conductive EEG Paste

Code	Description	QTY / Case
30806726	Nuprep 1030	3 tubes
30806692	Ten20™	3 tubes
30806718	Ten20™ 8oz jar	3 jars



Ten20™ 8oz jar

Ten20™





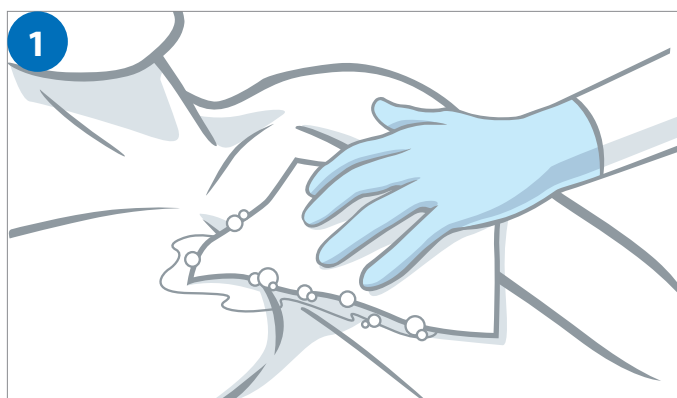
## Skin Preparation Guidelines.

Oils, sweat and hair present on the skin can cause impedance between the electrode and skin, which can cause artifact. Poor or no skin preparation can result in reduced adhesion & signal quality.

## Skin Preparation.

Oils, sweat and hair present on the skin can cause impedance between the electrode and skin, which can cause artifact. Poor or no skin preparation can result in reduced adhesion & signal quality.

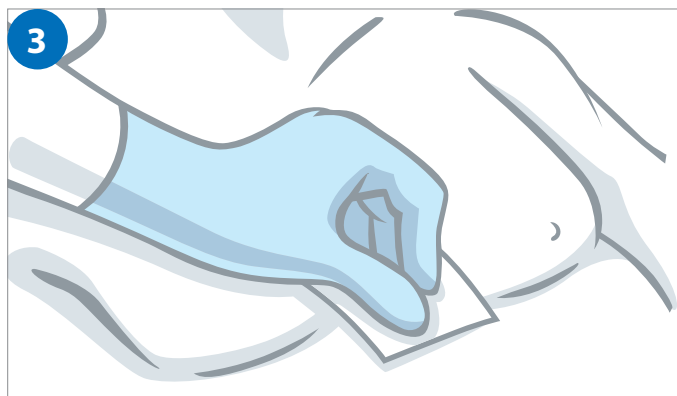
### Skin Preparation Guidelines.



Clean the electrode application sites with warm, soapy water and dry them with a clean cloth or gauze.



If hair is present, shave the patient site to permit good contact between the electrodes and skin.



To abrade the skin, use electrodes with an integrated abrader (or a 4x4 gauze pad). Lightly rub the skin using two or three brisk strokes to reduce skin impedance and improve the quality of ECG tracings.

(Too much abrasion isn't necessary and can irritate the skin)



If patient skin site is sweaty, rub it with a dry cloth before applying the electrodes.



*Isopropyl alcohol can irritate the skin. Avoid unless adhesion is a problem. If used allow to dry fully before applying electrodes.*



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33530T-	Kendall™ DL Adaptor For use w/ 5 or 6 Lead Telemetry Systems by Draeger Medical, Inc. under its trademark Infinity™*	30
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33537T-	???	30
33541-	Kendall™ DL Adaptor (5 Lead) For use w/ Telemetry Systems by Phillips Electronics N.V. under its trademark IntelliVue™* MX40	30
33542-	Kendall™ DL Adaptor (6 Lead) For use w/ Telemetry Systems by Phillips Electronics N.V. under its trademark IntelliVue™* MX40	30
33543-	Kendall™ DL Adaptor (5 Lead) w/ SpO2 For use w/ Telemetry Systems by Nellcor	30
33544-	Kendall™ DL Adaptor (6 Lead) w/ SpO2 For use w/ Telemetry Systems by Nellcor	30
33545-	Kendall™ DL Adaptor (5 Lead) w/ SpO2 For use w/ Telemetry Systems by Phillips Electronics N.V.	30
33546-	Kendall™ DL Adaptor (6 Lead) w/ SpO2 For use w/ Telemetry Systems by Phillips Electronics N.V.	30
ES40025†	Excel Cloth 3030 50/resealable pack	12
ES40030-	Soft-E™ Repositionable Cloth Series H49P (38mm x 38mm)	12
ES40076-	Soft-E™ Repositionable Cloth Series H59P (38mm x 22mm)	20
ES40281-	Soft-E™ Repositionable Cloth Series H69P (22mm x 22mm)	20



# Summary.

Indication	Adult	Infant/Paediatric
Long-Term Monitoring	MT450/453/455 H92SG, H34SG, H98SG, H99SG, H49P MT700/733/735, MT200/230/233 MT530/533/535, BIOTAC CLOTH 7605	H135SG, H124SG MT /100/130 H59P, H69P, H93SG
Short-Term Monitoring	MT450/453/455 H66LG, H98LG, H99LG, H34LG, MT200/230/233	H124SG MT Mini 100 H59P, H49P, H69P, H93SG
Emergency Monitoring	SINGLE PATIENT (PUT-UPS) MT453, MT455, MT233, MT235, MT733, MT735, MT853, MT855 (RADIOLUCENT)	(PACKAGING IN STRIPS) MT MINI 100 MEDI-TRACE 130/133
Resting ECG	CA610, 5400, 5500	CA610, 5400, 5400 electrodes
CATHLABS, X-Ray, CT, MRI (RADIOLUCENT)	MT850/853/855 H34SG, H914TSG MT750, RT630 EXCEL 3030, EXCEL SF3040.50	H135TSG, RT630
Stress Test	H34SG, H34LG, H91SSG, H92SG H71SG, MT 530, MT 700	H135SG
Holter	MT530/533/535 H34SG, H34LG, H71SG, H91SSG, H92SG	H135SG, H49P, H59P
EMG, Evoked Potentials Special Applications (e.g Hearing diagnostics)	H124SG, MT133 H93SG, H59P, H69P	H124SG, MT133 H93SG, H59P, H69P

This indication chart is based on our market experience and represents our recommendation only.

## NOTE:

MT = MEDITRACE  
RT = RADIOTRACE

SG = SOLID GEL  
LG = LIQUID GEL

