

A Stronger Connection



High-Quality Electrodes for ECG and Defibrillation

Our Covidien recommended range of electrodes makes use of the latest innovations and materials so you can make appropriate choices for all your critical everyday applications

 **COVIDIEN**
positive results for life™

Introduction

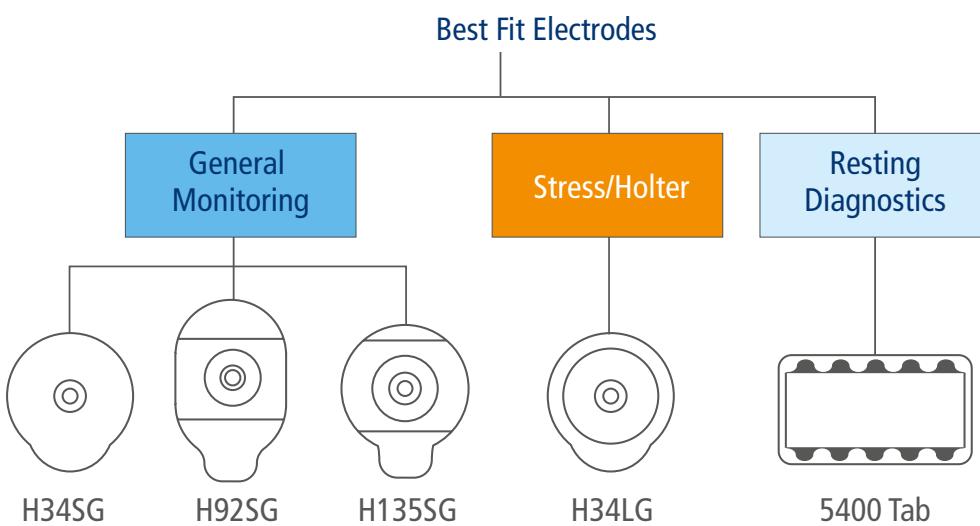
From the neonatal ward to emergency defibrillation, Covidien will help you make a positive connection.

Covidien recommended electrode solutions

Most acute hospitals require a selection of electrodes to suit a variety of applications.

Thanks to Covidien, choosing the right electrodes is simple.

Our range of recommended 'best fit' electrodes provide a complete solution for all your everyday requirements.





In critical situations, it's vital that the electrodes you choose provide a strong connection, reliable signal and are simple to operate.

The Covidien range of electrodes is designed to offer application specific features, such as - powerful skin friendly adhesives for long term monitoring and diagnostics, special radiolucent features for cath lab procedures, and full surface hydrogels for the more sensitive neonates.

The Covidien electrode range:

ECG

Neonatal

Defibrillation

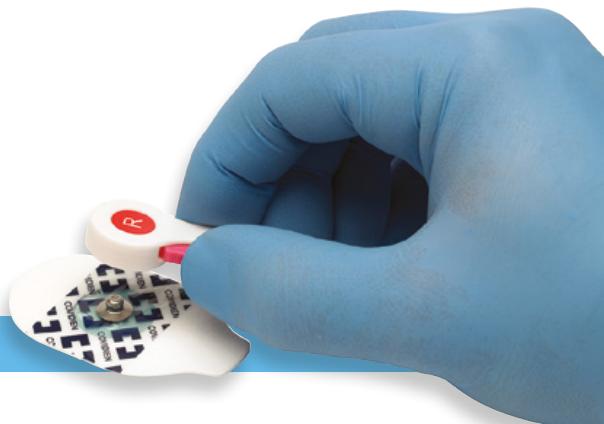
- Large range of shapes and sizes
- Powerful adhesion³
- Excellent signal quality³
- Evidence based performance³

Covidien Adult Electrodes

Covidien adult electrodes are suitable for both monitoring and diagnostic purposes. Also available with X-ray and MRI compatibility.

KEY FEATURES:

- Range of shapes and sizes for optimal placement in all situations
- Strong adhesion for an accurate and reliable signal
- Gentle on the skin for patient comfort



KENDALL™ ECG FOAM ELECTRODES SOLID GEL



Oval-shaped electrodes

Product:	H92SG
Code:	31.1925.21
Description:	Oval, multi-purpose stud electrode, 57x34mm
Special features:	Oval design allows sufficient space on torso for placement

Alternative oval shaped electrodes:

[H91TSG \(31.1915821\)](#) As H92SG X-ray & MRI compatible, strong adhesion

[H914SG \(31.1914.21\)](#) As H92SG with banana adaptor

[H914TSG \(31.1914821\)](#) As H92SG with banana adaptor, X-ray & MRI compatible



Small, round electrodes

Product:	H135SG
Code:	31.1355.21
Description:	Round, stud, general monitoring electrodes, 43x35mm
Special features:	Suitable for adults and paediatrics

Alternative small round shaped electrodes:

[H135TSG \(31.1355821\)](#) As H135SG X-ray & MRI compatible, strong adhesion



Round electrodes

Product:	H34SG
Code:	31.1946.21
Description:	Round, universal stud electrode, 50x45mm
Special features:	X-ray & MRI compatible, strong adhesion

Covidien Adult Electrodes

OTHER ELECTRODES



Medi-Trace™ 200

Code: 31050522

Description: Round, stud, general monitoring electrode, 35mm

Special features: Packed in perforated strips



Medi-Trace™ 133

Code: 31439725

Description: Round, stud, general monitoring electrode, 30mm

Special features: Smaller version of Medi-Trace™ 200, smaller and packed in strips of 3

Alternative electrode:

Medi-Trace 100 (31118733)

As 31439725, Smaller version of Medi-Trace™ 200, smaller and packed in strips of 5



Medi-Trace™ 530

Code: 31013926

Description: Round, stud, general monitoring electrode, 45mm

Special features: Pack of 30 loose electrodes

KENDALL™ ECG FOAM ELECTRODES WET GEL



H34LG

Code: 31.1345.21

Description:

Round, stud, stress electrode, 50x45mm



H135LG

Code: 31.1413.21

Description:

Round, stud, diagnostic stress electrode, 40mm



H1354LG

Code: 31.1414.21

Description:

Round, banana adaptor diagnostic & stress electrode, 40mm



H66LG

Code: 31.1663.21

Description:

Round, stud, diagnostic stress electrode, 55mm
Also available with a banana adaptor, code 31.1664.21

Covidien Adult Electrodes

KENDALL™ ECG FOAM ELECTRODES – CLOTH/MICROPOROUS BACKING



Micropore backed electrodes

Product: H98SG

Code: 31.1986.21

Description: Round, stud, multi-purpose electrode, 55mm

Special features: Suitable for sensitive skin



Cloth backed electrodes

Product: H99SG

Code: 31.1996.21

Description: Round, stud, multi-purpose electrode, 55mm

Special features: Suitable for sensitive skin

Alternative electrode:

H98LG (31.1985.21)

As H98SG; round, stud, multi-purpose electrode, 55mm with liquid gel

Alternative electrode:

H99LG (31.1995.21)

As H99SG; round, stud, multi-purpose electrode, 55mm with liquid gel



Kendall™ 5400 TAB electrode

Product: 5400 TAB electrode

Code: 30807732

Description: Full surface hydrogel, repositionable diagnostic electrode

Special features:

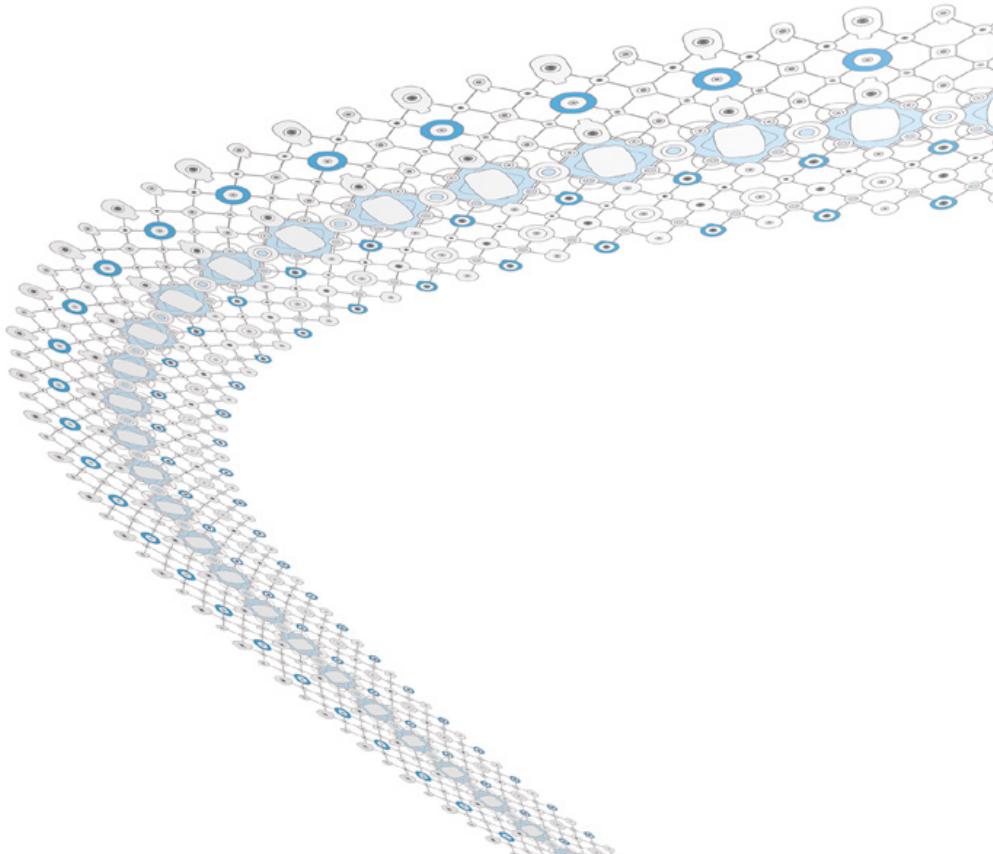
MRI, X-ray compatible



Adaptor for tab/snap ecg electrodes

Code: 22660A

Description: Universal adaptor for stud and TAB electrodes, adapts to a 4mm banana plug



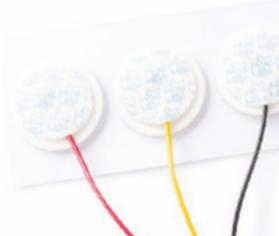
Covidien Neonatal Electrodes

Covidien neonatal electrodes are especially designed for use on the fragile skin of neonates. The use of full-surface conductive hydrogel allows for secure but gentle attachment without the use of adhesives.

KEY FEATURES:

- Repositionable
- Suitable for incubators
- Choice of breathable cloth, foam or micropore backings
- Variety of lead wire lengths

NEONATAL ELECTRODES



Round foam electrode

Product: 4203

Code: 31368072

Description:

22mm diameter, cloth backing & IEC leads



Oval micropore electrode

Product: H207PG/F

Code: 31.5072.03

Description:

30x22mm, 60cm IEC leads and DIN socket



Round micropore electrode

Product: H87PG/F

Code: 31.5872.04

Description:

30mm diameter, 60cm IEC leads and DIN socket

Product	Order Code	Size	Leads			Gel		Material		X-ray	Incubators	Connector
			White	AAMI	IEC	Clear gel*	Karaya gel*†	Micro pore	Cloth			
H203PG	31.5032.26	30x22mm	50cm			●		●			●	●
H87H/F	31.3876.04	Ø 30mm			60cm	●		●				●
1050NPSM	31424768	Ø 25mm		60cm		●			●		●	●
H83V	31.3835.25	Ø 30mm	50cm				●	●				●
H87V/F	31.3873.25	Ø 30mm			60cm		●	●				●
H87V	31.3870.24	Ø 30mm	60cm				●	●				●
H207PGT	31.5072824	30x22mm	90cm			●		●		●	●	●
1051NPSM	31424743	Ø 25mm		60cm		●			●	●	●	●

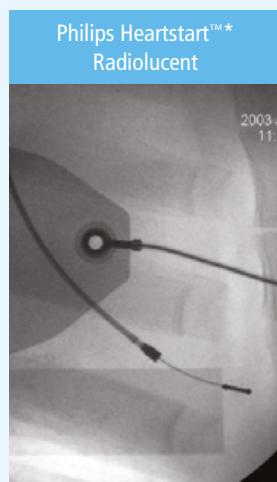
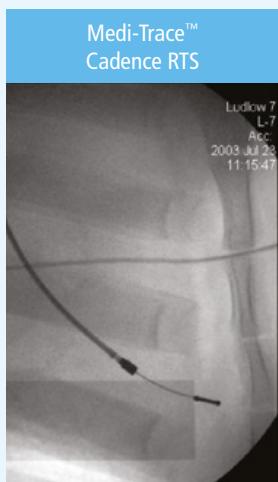
Covidien Multifunction/Defibrillation Electrodes

Covidien defibrillation pads – reliable and easy to use ensuring a fast response in emergency situations. Covidien Multifunction Defibrillation pads include a classic and more advanced Cadence range, both ranges with multiple functionality.

MULTIFUNCTION USES:

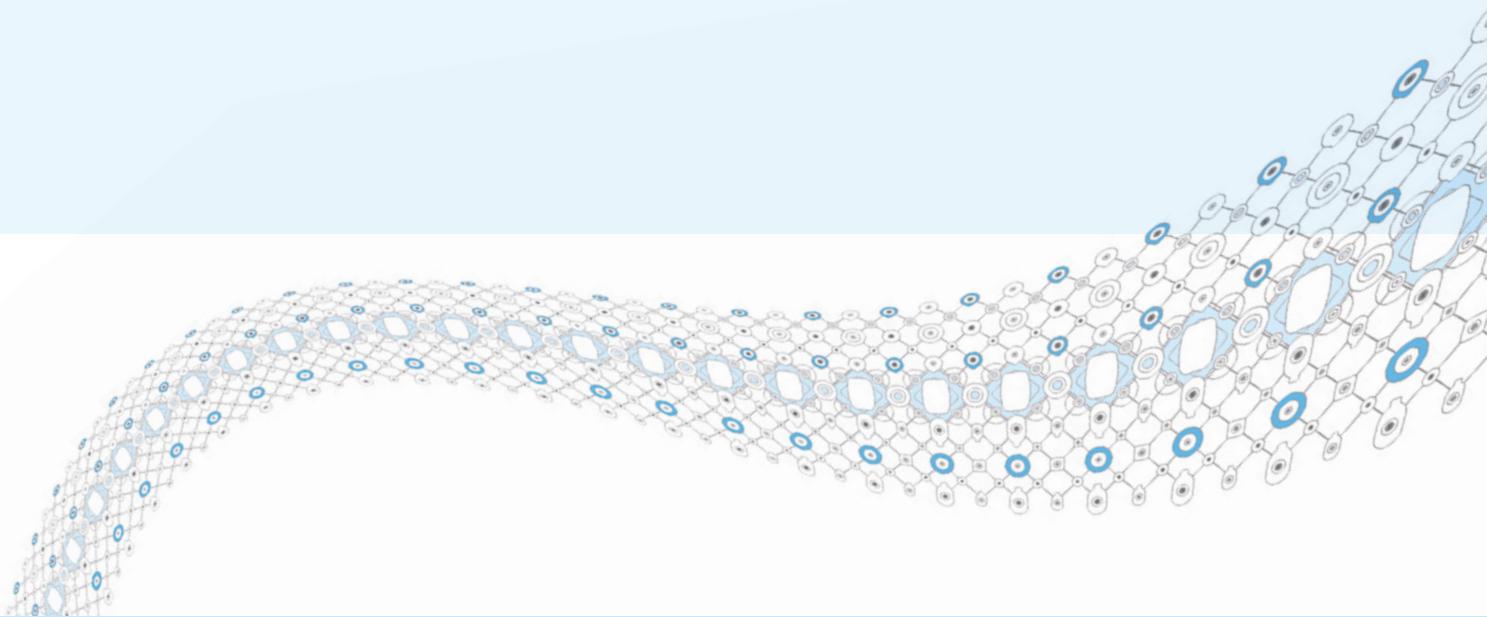
- Defibrillation
- Cardiac Pacing
- Cardioversion
- Monitoring

Compare radiotransparency under x-ray (a)



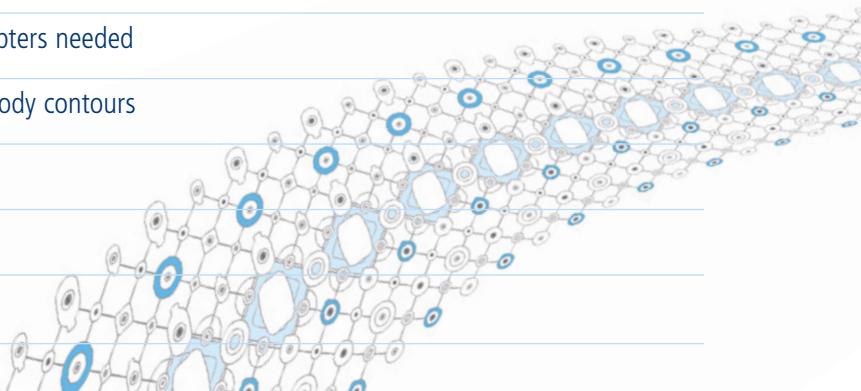
(a) X-rays were taken at 64 kVp; X-ray reference is aluminium bar at 64 kVp

- Medi-Trace™ Cadence RTS has superior radio transparency in comparison to Zoll Pro-Padz™* Bi-phasic and Phillips Heartstart™* radiolucent electrodes under normal X-ray levels¹
- Medi-Trace™ Cadence RTS electrodes feature Nickel-Carbon lead wires resulting in total radio transparency of the entire product¹
- US Food & Drug Administration authorized Covidien to market Kendall™ Medi-Trace™ Cadence RTS electrodes as a radiotransparent rather than a radiolucent product

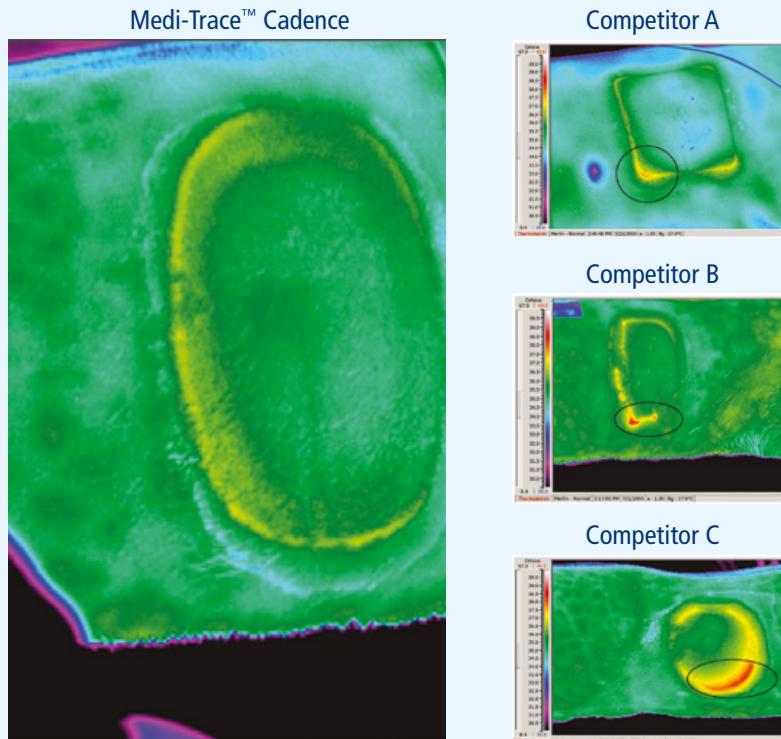


MEDI-TRACE™ CADENCE ELECTRODES FOR PROLONGED EXTERNAL PACING:

- Conductive adhesive hydrogel designed to maximise adhesion and electrical contact
- Connects directly to defibrillators with no special adapters needed
- Foam substrate resists fluids and conforms easily to body contours
- Superior radiotransparency
- Pre-connect options
- Extra-long lead wires



Compare distribution of current using thermograms (b)



- Medi-Trace™ Cadence electrodes clearly illustrate the benefit of a more uniform distribution of current, with reduced skin injury compared with electrodes without edge-manipulation technology²
- Medi-Trace™ Cadence electrodes do not show the concentrated energy areas or hot spots that may cause skin injury, as illustrated by these thermograms

(b) Thermograms were taken 3.60 seconds after defibrillation using a bi-phasic defibrillator

Feel confident using Medi-Trace™ Cadence electrodes for prolonged external pacing

- Simple and easy-to-use Pacing Time calculation chart supplied with each IFU booklet to help reduce the risk of chemical pacing burns

MEDI-TRACE™ CADENCE-PC MULTI FUNCTION ELECTRODES (PRE-CONNECT)

Designed specifically for emergency applications, the Medi-Trace™ Cadence-PC enables a fast clinical response thanks to the convenient pre-connect feature, allowing connection directly to the defibrillator before it is necessary to open the pouch.



Reorder Number	May be used in place of:	Quantity/Pouch	Pairs/Case
22550PC	Physio-Control Redi-Pak™* 11996-000017	1 Pair	10
22660PC	Philips™* 989803166021	1 Pair	10
22661PC	Philips™* (HP) Barrel Connector M3501A & M3502A	1 Pair	5
22770PC	Zoll Stat-Padz™* 8900-4003	1 Pair	10

MEDI-TRACE™ CADENCE RTS MULTI FUNCTION ELECTRODES (RADIO-TRANSPARENT)

The oval-shaped Medi-Trace™ Cadence RTS electrodes provide excellent radiotransparency as well as patented Covidien gradient technology in order to disperse energy accurately and uniformly during emergency defibrillation situations.



KEY FEATURES:

- Connects directly to OEM equipment to ensure a reliable connection, and eliminates need for special adapters or cable manipulation
- Up to 117cm (46 inch) long integrated leads for greater manoeuvrability and staff safety
- Full compliance with ANSI/AAMI DF80:2003 standard even after prolonged external pacing

Reorder Number	May be used in place of:	Quantity/Pouch	Pairs/Case
22550A	Physio-Control Quik-Combo™* 11996-000091	1 Pair	10
22550R	Physio-Control Quik-Combo™* RTS11996-000090	1 Pair	10
22550P	Physio-Control Pediatric Quik-Combo™* 11996-000093	1 Pair	5
22770R	Zoll Pro-Padz™* 8900-2100-01, 8900-4005, 8900-2303-01, 8900-2055	1 Pair	10
22770P	Zoll Pedi-Padz™* 8900-2065, 8900-3000-01	1 Pair	5
22660R	Philips™* M3713A, M3716A & M3718A, DP2, DP6	1 Pair	10
22660P	Philips™* M3717A, M3719A	1 Pair	10
22661R	Philips™* (HP) Pediatric M3501A, M3502A	1 Pair	10
22661P	Philips™* (HP) Pediatric M3503A, M3504A	1 Pair	5

MEDI-TRACE™ MULTIFUNCTION 'CLASSIC' ELECTRODES

The Medi-Trace™ Multifunction 'Classic' electrodes are compatible with most defibrillators on the market, including older models.



KEY FEATURES:

- Radiotranslucent (except for lead wire and connector assembly)
- Connect using the original manufacturer's interface cable, with no additional adapter necessary
- Optional prewired models plug directly to the defibrillator

Reorder Number	Match Code	May be used in place of:	Quantity/ Pouch	Pairs/ Case
31319281	1310P	Medtronic Physio-Control Quik-Combo™* Pacing/Defi/EKG Electrodes	1 Pair	10
31177721	1210H	Philips™* (Hewlett Packard) M3502A Barrel Connector Multifunction Adult Electrodes	1 Pair	10
31469219	1410Z	Zoll Stat-Padz™* Multifunction Adult Electrodes	1 Pair	10
31319315	1510M	Marquette™* E9004xx Defibrillation/Pacing Electrodes	1 Pair	10
31177705	1010P	Medtronic Physio-Control Fast Patch™* Defibrillation, ECG Monitoring Electrodes	1 Pair	10
40000006	1710H	Philips™* DP2, DP6, Agilent* M3713A, Multifunction Adult Electrode & Laerdal Medical™* DP2 & DP6 Multifunction Adult Electrodes	1 Pair	10

Detailed information available in:

1 "Study on the X-ray transmission properties of defibrillation electrodes", performed by Biomedical Engineering Department at Purdue University, USA, July 2003.

2 "A Reduced Skin-Irritation Defibrillation Electrode" – 30th Annual Northeast Bioengineering Conference, Springfield, MA, USA, 2004 – P.F. Meyer, P.D. Gadsby, D. Van Sickle, W.E. Schoenlein, K.S. Foster, and G.P. Gruber

3 Covidien internal testing Report 32351-55 "Determination of Sweat and Moisture Tolerance and Impedance of Investigational or Marketed Electrodes on Human Skin". October 2013.

IMPORTANT : Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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