



Value Life

NEONATOLOGY



THE  
**goldenhour**  
PRODUCT GUIDE

# THE goldenhour

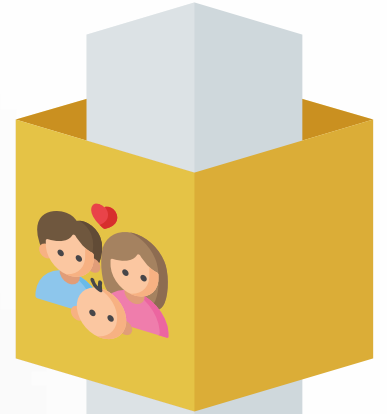
Research shows that what happens in the first, crucial hour of a premature baby's life can make a difference between a good outcome and a poor outcome or, the worst scenario of all, death. By focusing on the key stages of thermoregulation, resuscitation, administration of antibiotics and parenteral nutrition, hypoglycaemia management and admission into the NICU, the risks of morbidity and mortality decrease.<sup>(1)</sup> For some high-risk babies, these key interventions can last for hours, or even days.

Recognising the importance of the 'Golden Hour' principles, along with improvements in medicine and more effective technology, means that survival rates are increasing.

Determined to do everything in our power to make a difference, we have worked with neonatologists for over a decade focusing on the moments after birth, thermoregulation, respiratory support, cardiovascular support and protection. Our aim is to offer clinicians the products that give their youngest, and most vulnerable, patients the best possible start in life.

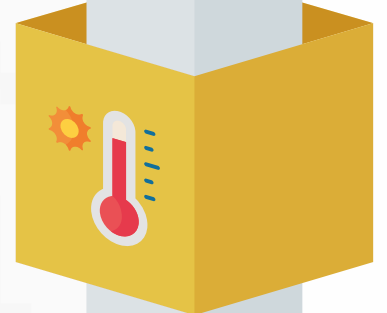


## Birth .....



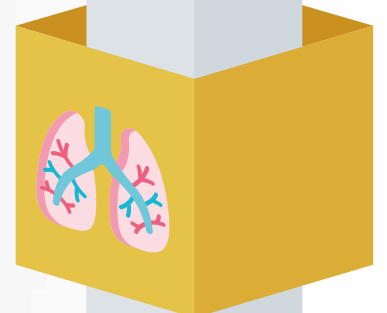
## Thermoregulation .....

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# neohelp™

## A sterile heat loss prevention suit to deliver life-saving thermal care

Immediately after a premature baby is delivered by c-section, the priority is to place them in a warm and sterile environment. neohelp™ provides this essential protection so other essential Golden Hour care and treatment, including delayed cord clamping, can take place.<sup>(2,3)</sup>

### Integrated adjustable hood

Decreases heat loss through radiation:

- More efficient than a stockinette cap allowing air to pass through the material
- The toggle allows you to adjust to the baby's head

### Double layer of soft clear polyethylene

Decreases heat loss through convection and evaporation:

- Creates a warm and humid environment, mimicking the incubator effect
- The thin inner allows for excellent skin contact
- Creates a barrier against drafts
- Allows passage of radiant heat from an additional warming device (if used)<sup>(4)</sup>
- Transparent material allows vital observations<sup>(5)</sup>

### Pre-shaped foam support

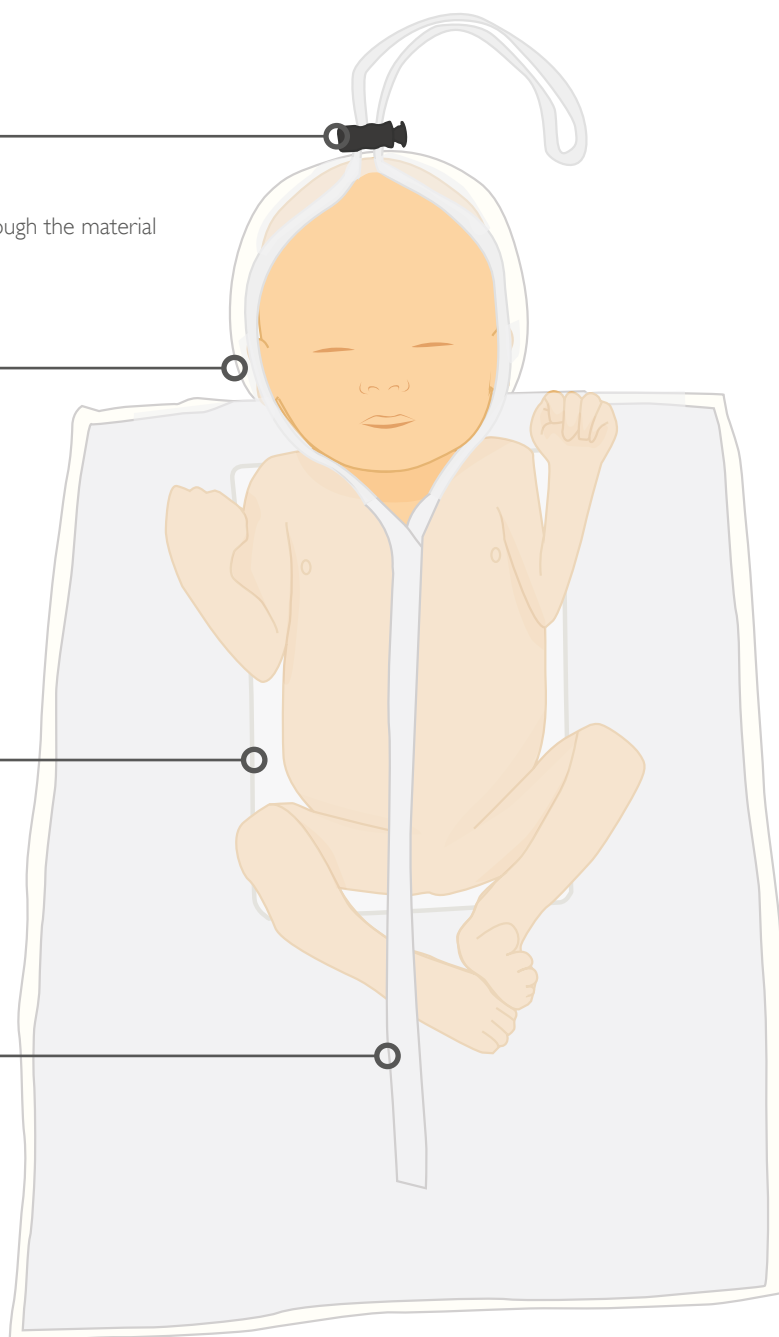
Decreases heat loss through conduction:

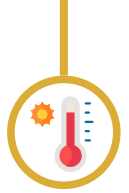
- Helps to maintain an open airway by raising the shoulders
- Stabilises the baby's position
- Provides thermal care during transportation
- Provides comfort

### Central VELCRO® opening

Provides optimum seal to ensure heat conservation:

- Quick and easy to place around the baby
- Allows full access to the baby's body
- Designed for easy placement of monitoring equipment, IV, umbilical catheters and carrying out Golden Hour care





## Why is thermal care important?

Thermal care is vital for a preterm infant because they may have unbalanced skin-surface to weight ratio, very little or no capacity to generate heat (brown adipose tissue), inadequate stores of subcutaneous (insulating) fat and immature epidermal barrier.<sup>(5,6)</sup>

At this vital time, neohelp prevents heat loss through its double layer of soft, clear polyethylene, integrated adjustable hood and VELCRO® seal.

### For every 1°C decrease:

Risk of sepsis increases **by 11%**  
Risk of death increases **by 28%**<sup>(4)</sup>

### In the first 10-20 minutes,

without any protection,  
temperature can fall **by 2-4°C**<sup>(7)</sup>

## Why is delayed cord clamping important?

Provided the baby can be kept warm and does not need immediate resuscitation, the Resuscitation Council UK (RCUK) recommends delayed cord clamping (DCC) for at least 60 seconds whilst breathing is established.<sup>(8)</sup>

Delayed cord clamping has been shown to reduce the relative risk of:

- Intraventricular haemorrhage by 41% (RR 0.59, 95% CI 0.41 to 0.85)<sup>(9)</sup>
- Necrotising enterocolitis by 38% (RR 0.62, 95% CI 0.43 to 0.90)<sup>(9)</sup>

In addition, this procedure increases circulation of blood volume after birth and an improvement in cardiovascular stability, reducing the need for a blood transfusion.

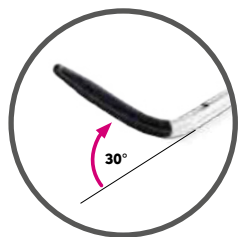
## Ordering codes

Vygon code	NHSSC code	Baby weight (kg)	Description	Dimensions (cm)	Box qty
00370914	BWK1629	< 1	neohelp Small	L. 38 x W. 30	10
00370915	BWK1630	1 – 2.5	neohelp Medium	L. 44 x W. 38	10
00370916	BWK1631	> 2.5	neohelp Large	L. 50 x W. 38	10

# surfcath™

## A catheter for surfactant administration using the LISA method

For babies needing treatment for respiratory distress syndrome (RDS), our new surfcath™ uses the LISA (Less Invasive Surfactant Administration) method to place the catheter. It was specifically designed to improve manoeuvrability during placement whilst also eliminating the need for the commonly used Magill forceps.



### 2cm soft distal black tip

- 2cm mark shows when surfcath™ is in place
- Soft tip minimises risk of tracheal lesions and prevents kinking
- Pre-curved to follow the airways anatomy

### Transparent bendable thermoplastic material

- Transparent material allows visual check on the delivery of surfactant
- Thermosensitive material allows you to curve surfcath™ prior to use meaning no need for Magill forceps
- Semi-rigid material also allows high manoeuvrability, helping to follow the airways anatomy

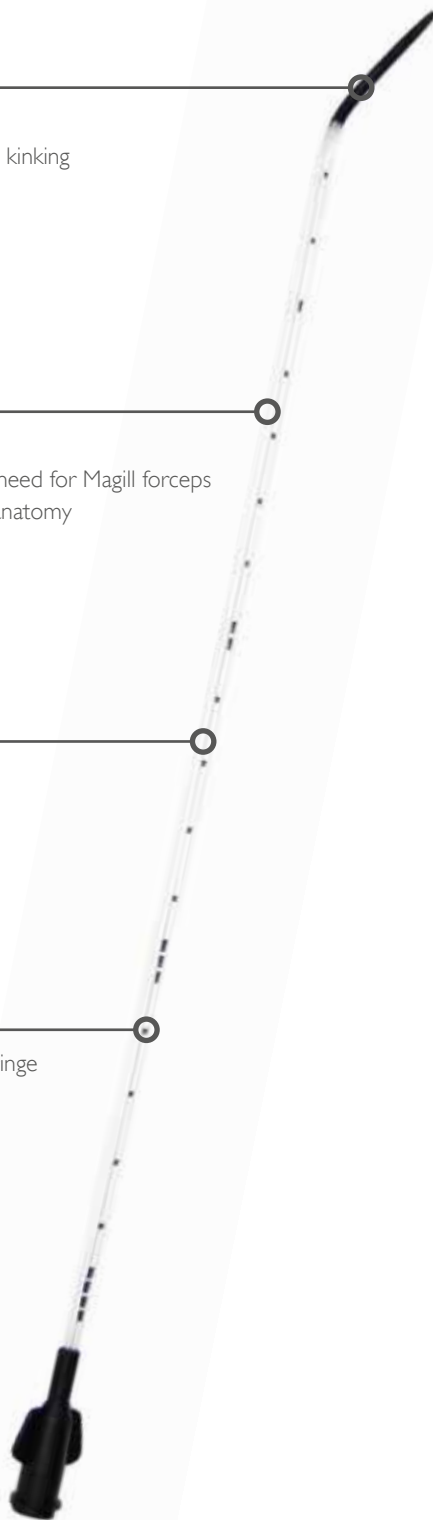
### Less invasive 6Fr gauge

- No obstruction of the airways allowing spontaneous breathing
- Low dead space (0,2 mL)



### 20cm length with cm markings

- Longer length eases manipulation of the surfactant syringe away from the patients head
- Centimetre markings indicate the inserted length and check that surfcath™ stays in place





## Treating respiratory distress syndrome (RDS)

RDS is the most common lung disease in premature infants and is a pulmonary disorder resulting from a surfactant deficiency. In Europe RDS is observed for about 90% of babies born at 24 weeks and for 80% babies born at 28 weeks of gestation.<sup>(10)</sup>

## International guidelines recommend

- Preterm infants should be managed without mechanical ventilation where possible
- CPAP (Continuous positive airway pressure) with early rescue surfactant is considered optimal management for babies with RDS
- LISA is the preferred mode of surfactant administration for spontaneously breathing babies on CPAP, provided that clinicians are experienced with this technique.<sup>(10)</sup>

## Ordering code

Vygon code	Size (Fr)	Length (cm)	Priming vol (mL)	Box qty
005590106	6	20	0.2	10

## Scan to watch our video

on how to use surfcath™ surfactant injection catheter

Please note: The link will take you to an external website

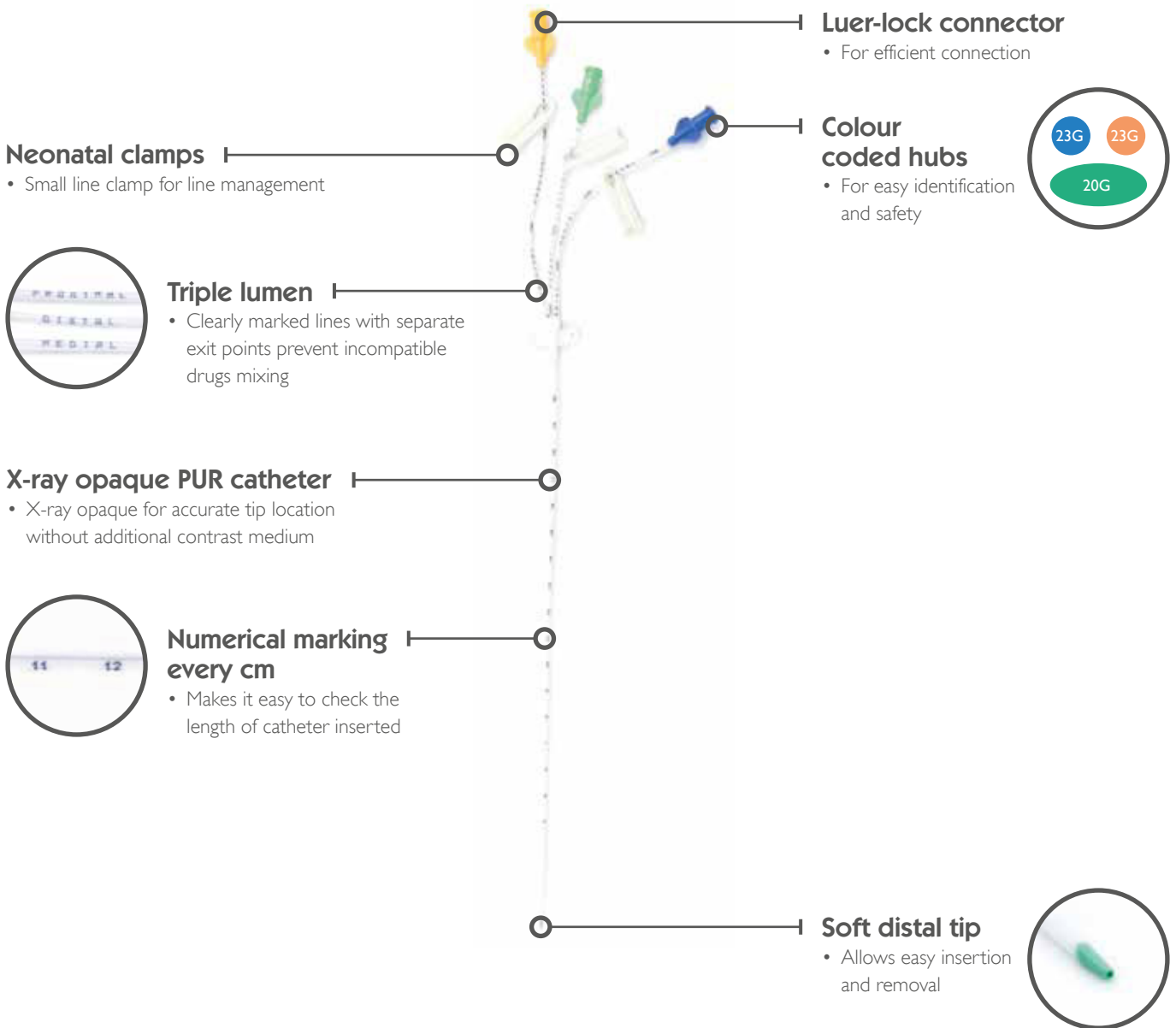


# Umbilical catheters



## Triple lumen umbilical catheter

A triple lumen umbilical catheter to administer TPN and for the injection of drugs; particularly those with incompatible features or when one drug needs to be injected continually.



## Ordering codes

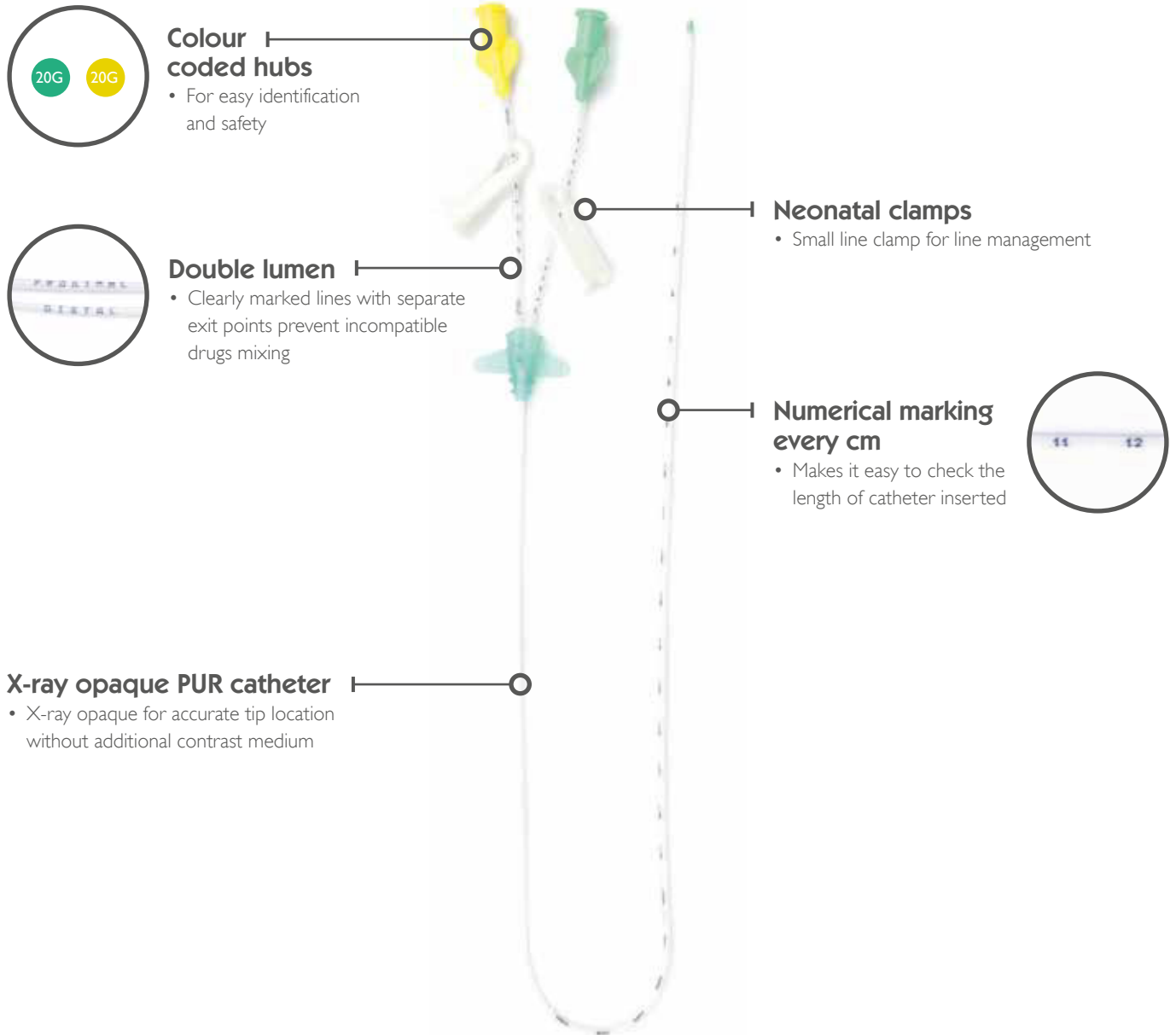
Vygon code	Size (Fr)	Exit point	Length (cm)	Priming vol (mL)	Flow rate (mL/min)	Material	Neonatal clamps	Hub colour	Box qty
V02127315	4.5	Distal (20G)	20	0.20	7.4	PUR	Yes		10
	4.5	Medial (23G)	20	0.17	2	PUR	Yes		
	4.5	Proximal (23G)	20	0.17	2.1	PUR	Yes		





## Double lumen umbilical catheter




A double lumen umbilical catheter for short term catheterisation through the umbilical vein when multiple access is needed.



**X-ray opaque PUR catheter**

- X-ray opaque for accurate tip location without additional contrast medium

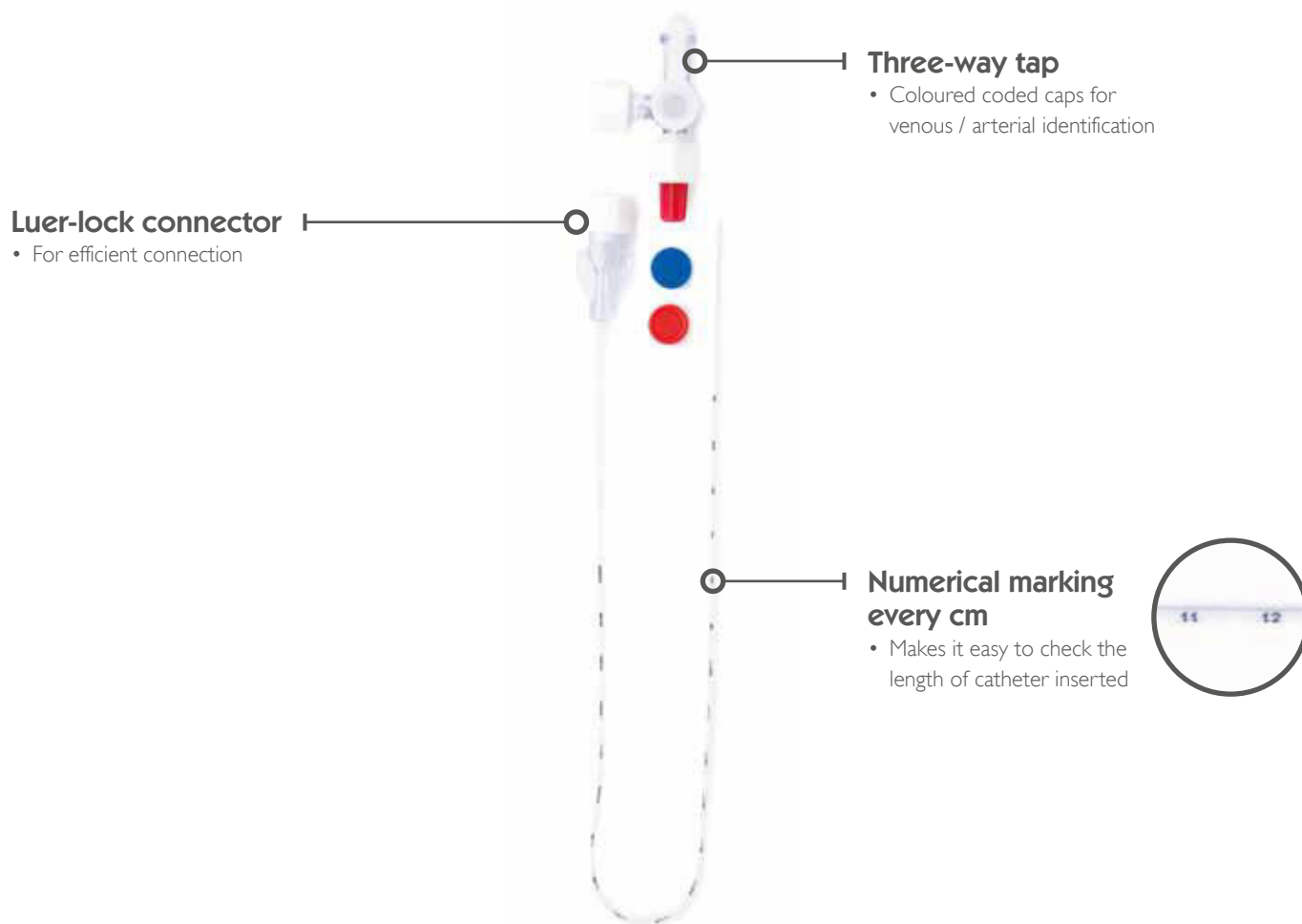
### Ordering codes

Vygon code	Size (Fr)	Exit point	Length (cm)	Priming vol (mL)	Flow rate (mL/min)	Material	Neonatal clamps	Hub colour	Box qty
00127214	4	Proximal	20	0.19	12	PUR	Yes		10
	4	Distal	20	0.19	11	PUR	Yes		
00127204	4	Distal x2	20	0.19	11	PUR	Yes		10

# Umbilical catheters

## Single lumen umbilical catheter

A single lumen umbilical catheter used for venous or arterial access.



## Ordering codes

Vygon code	NHSSC code	Size (Fr)	Length (cm)	Priming vol (mL)	Flow rate (mL/min)	Material	Box qty
1270.02	FSY023	2.5	30	0.12	>3	PUR	8
1270.03	FSY024	3.5	40	0.27	>10	PUR	8
1270.04	FSY025	4	40	0.29	>10	PUR	20
1270.05	FSY026	5	40	0.40	>23	PUR	20
1270.08	FSY027	8	40	0.81	>100	PUR	20
0270.03	FSY013	3.5	37	0.19	>6	PVC	15
0270.04	FSY015	4	37	0.27	>16	PVC	15
0270.05	FSY016	5	37	0.38	>31	PVC	15
0270.06	FSY017	6	37	0.51	>52	PVC	15
0270.07	FSY139	7	37	0.59	>80	PVC	15
0270.08	FSY022	8	37	0.75	>106	PVC	15



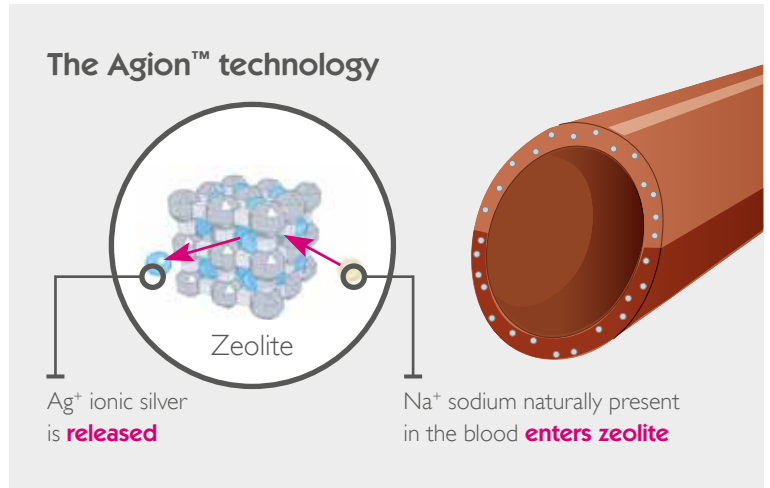
# expert umbilical catheter

Single and double umbilical catheters with antimicrobial technology

The *expert* umbilical catheter is the only umbilical catheter with integrated antimicrobial Agion® technology, to fight against CRBSI in NICUs.

Ag<sup>+</sup> is bacteriostatic that inhibits the cell reproduction. Ag<sup>+</sup> combine with bacterial proteins located in the cell wall and cytoplasm which interferes with their normal functioning.

These proteins are vital for the healthy functioning of the cell therefore loss of the proteins results in the death of the bacteria.



## Clinical performances

“A reduction in catheter-related bloodstream infections in preterm infants found from using catheters with the Agion® antimicrobial system.”<sup>(1)</sup>

“Preterms with an expert umbilical venous catheter had shorter hospital stays and a lower case fatality rate.”<sup>(1)</sup>

“There was no case of intolerance to the Agion® catheters and none of these catheters had to be removed due to a local skin infection. In addition, none of the patients in the Agion® catheter group showed signs of silver toxicity.”<sup>(1)</sup>

## Ordering codes

Product	Vygon code	Size (Fr)	Exit point	Length (cm)	Priming vol (mL)	Flow rate (mL/min)	Material	Neonatal clamps	Hub colour	Box qty
Single lumen expert catheters	008270230	2.5	-	30	0.10	2.2	PUR	N/A	N/A	25
	008270340	3.5	-	40	0.30	12	PUR	N/A	N/A	25
	008270440	4	-	40	0.30	12	PUR	N/A	N/A	25
	008270540	5	-	40	0.40	27	PUR	N/A	N/A	25
	008270840	8	-	40	0.80	109	PUR	N/A	N/A	25
Double lumen expert catheters	008272420	4	Proximal	20	0.30	13.8	PUR	Yes	Yellow	25
		4	Distal	20	0.30	13.8	PUR	Yes	Green	
	008272440	4	Proximal	40	0.40	8.1	PUR	Yes	Yellow	25
		4	Distal	40	0.40	8.1	PUR	Yes	Green	
	008272540	5	Proximal	40	0.30	6.4	PUR	Yes	Yellow	25
		5	Distal	40	0.30	6.4	PUR	Yes	Green	

# Umbilical placement pack

Our umbilical placement pack contains everything required to safely & efficiently place an umbilical catheter



## The benefits of our umbilical packs



### Cost saving

A complete pack costs less than buying the individual components.



### Delivers better patient care

Pack enables Aseptic Non Touch Technique for catheter placement to minimise infections. Also allows traceability of pack components used.



### Reinforces best practice

Pack includes a heat sealed drape (to maximise the sterile barrier) and a safety hypodermic needle (to minimise the risk of accidental needlestick injuries).



### Standardises procedures

Consistent clinical practice assured with identical pack contents.

































### More environmentally friendly

Less waste with a pack compared to multiple packaging of individual components.



Each pack contains

	18G hypodermic safety needle		20G hypodermic safety needle		Scalpel
	Drapes without adhesive		40x40cm fenestrated transparent drape with "Easy-peel"		Drape towels
	1x pair of suture scissors		10x swabs 10x10cm, 8-ply		10x swabs 5x5cm, 8-ply
	1x transparent gallipot 60mL		1x red gallipot 60mL		Outer wrap
	Instructions for use		Umbilical tape		Measuring guide
	Mosquito haemostat curved		Mosquito haemostat straight		Iris forceps full curved
	Iris forceps half curve		Iris forceps straight		Iris forceps straight with teeth
	Needle holder		Measuring tape		1mL syringe
	3mL syringe		5mL syringe		Vessel dilator probe
	3.0 silk suture with curved cutting needle		Tray 20x15x4cm		2x fixation strips

Ordering code

Vygon code	NHSSC code	Description	Box qty
80.199.695	FSU377	Umbilical placement pack	10

# microsite®

A dedicated introducer kit for the placement of neonatal longlines in small veins

microsite® gives clinician's access to the smallest of veins using their preferred introducer whilst eliminating the need to leave it attached to the line.

## Puncture needle

### 24G needle

- Ideal for small veins and minimising trauma



### Transparent hub

- Gives a clear immediate view of blood flashback

### Funnel entry

- Allows easy insertion of the guidewire



## Guidewire

### Symmetrical tips

- The guidewire can be used either side

### Black markings

- Correspond to the length of the 24G puncture needle



### Nitinol

- Minimises the risk of kinking

### Flexible tip

- Atraumatic to vein endothelium
- 0.3mm ball head



## Dilator & cannula

### Tapered tip

- Provides good skin penetration and smooth dilation



### Peelable sheath

- For easy post insertion removal

### Funnel entry

- Easy insertion of a catheter up to 2Fr






Gaining safe and effective vascular access can be essential for premature babies who require total parenteral nutrition, fluids, or drugs. But it can be a difficult procedure and traumatic for patients. Evidence shows that exposure to pain from needle tips and IVs can be stressful for babies. **microsite**<sup>®</sup> can help avoid patient distress by enabling more accurate, first time venous access and therefore reducing unnecessary repeat access attempts. This, in turn, preserves delicate veins. The benefits of **microsite** include:

- Facilitating poor peripheral venous access<sup>(12)</sup>
- Enhancing the rate of successful placement<sup>(13)</sup>
- Allowing 2Fr central venous catheters to be safely placed in peripheral veins<sup>(14)</sup>


### Instructions for use

**1**




Puncture the vein with the 24G needle

**2**




Insert the guidewire through the needle

**3**




Withdraw the needle (the guidewire is kept in place)

**4**




Insert the cannula over the guidewire

**5**



Remove the internal part of the cannula and the guidewire

**6**



Insert the catheter through the cannula

### Ordering codes

Vygon code	NHSSC code	Description	Needle size (G)	Guidewire length (cm)	Peelable sheath size (Fr)	Box qty
1147.02	FSU544	<b>microsite</b> introducer kit	24	20	2	10

**Scan to watch our video**

on the **microsite**<sup>®</sup> introducer kit features and benefits

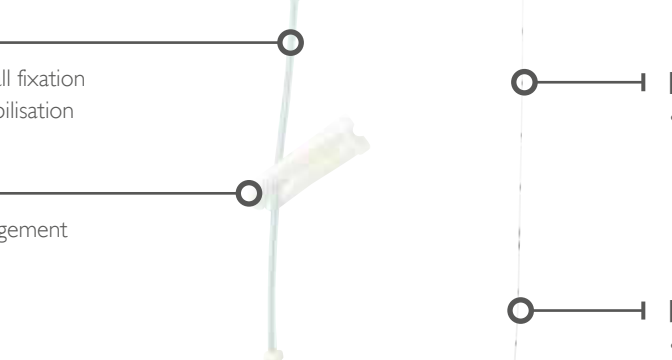
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# premicath®

A 1Fr PICC line designed specially for newborns under 1kg

Infants born prematurely weighing under 1kg often need the nutritional and therapeutic support that can only be delivered in to their tiny vessels via venous access. At just 1Fr; premicath® has been specially designed for the smallest and most fragile babies to deliver optimum accuracy during placement as well as minimising trauma for patients.



**Flushable stylet**

- For checking the line patency
- Stylet allows for clear visual confirmation and easier catheter advancing

**Extension line**

- Integrated extension with small fixation wings give better catheter stabilisation

**Small round clamp**

- Small line clamp for line management

**Fixation wings**

- Designed to be used with griplok™

**X-ray opaque**

- X-ray opaque for accurate tip location without additional contrast medium

**Small 1Fr gauge**

- Minimises vessel trauma and suits the veins of very low weight premature babies (<1kg)

**Black markings**

- Markings every centimetre with bigger black marking at the tip for accurate catheter placement and confirmation of full catheter removal

**PUR material**

- PUR material is firm during insertion but softens with body temperature, which minimises vessel trauma and enhances stay time

## Ordering codes

Vygon code	NHSSC code	Description	Stylet	Catheter				Box qty
				Size (G)	Length (cm)	Priming vol (mL)	Flow rate (mL/min*)	
1261.21	FSU221	premicath 1Fr x-ray opaque graduated PUR catheter with 24G breakaway needle introducer and syringe adaptor	No	24	20	0.09	0.70	10
1261.22	FSU220	premicath 1Fr x-ray opaque graduated PUR catheter with 20G microflash introducer	No	20	20	0.09	0.70	10
1261.203	-	premicath 1Fr x-ray opaque graduated PUR catheter with 24G breakaway needle	Yes	24	20	0.09	0.70	10
1261.208	FSU263	premicath 1Fr x-ray opaque graduated PUR catheter with 20G microflash introducer	Yes	20	20	0.09	0.70	10

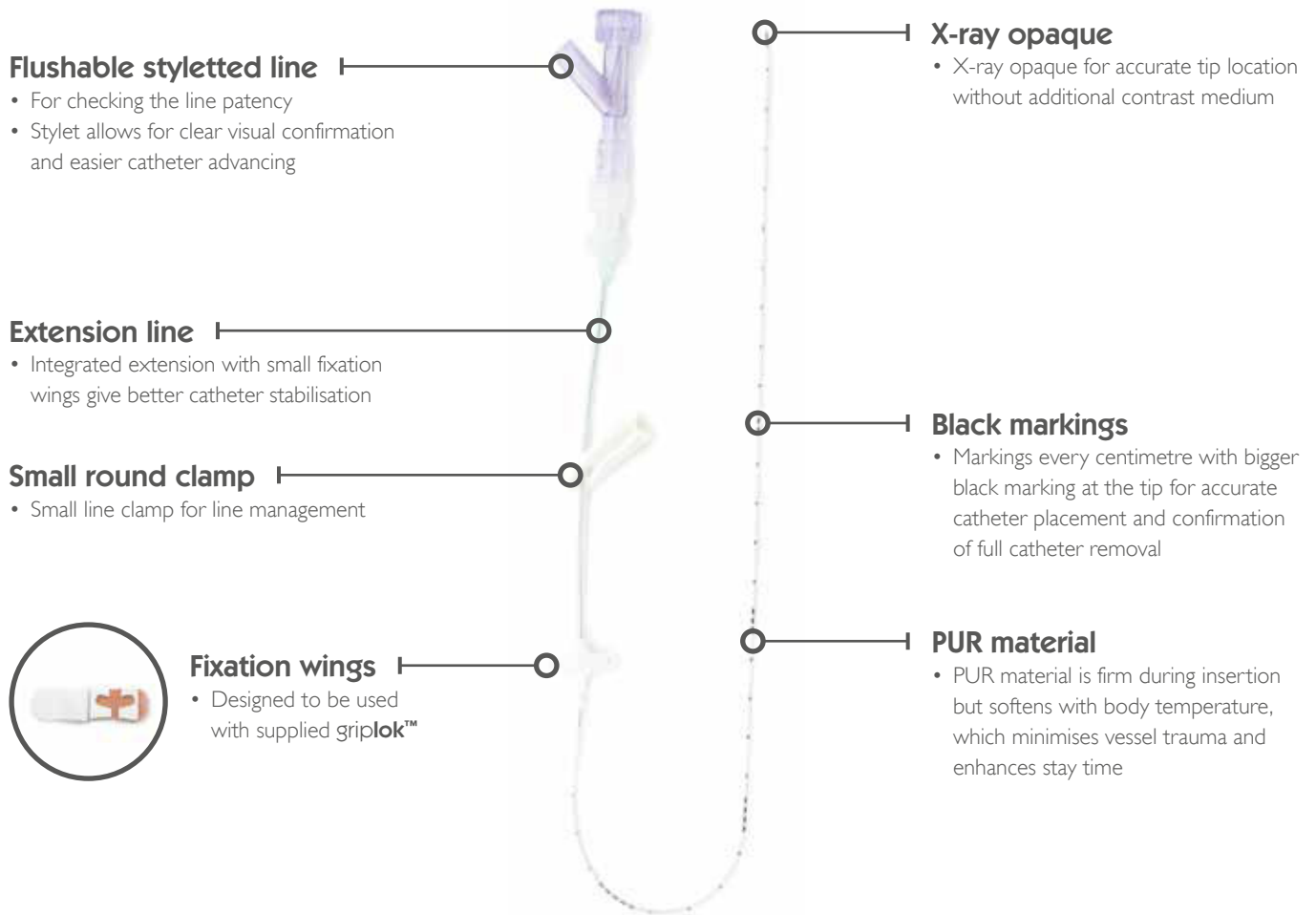




# nutri<sup>line</sup><sup>®</sup>

A PICC line with a unique & easy-to-use peelable needle available in 2 or 3Fr

nutri<sup>line</sup>'s one-piece catheter provides clinicians with a high degree of safety. Available in a choice of lengths to ensure accurate tip placement for most IV access sites.



## Ordering codes

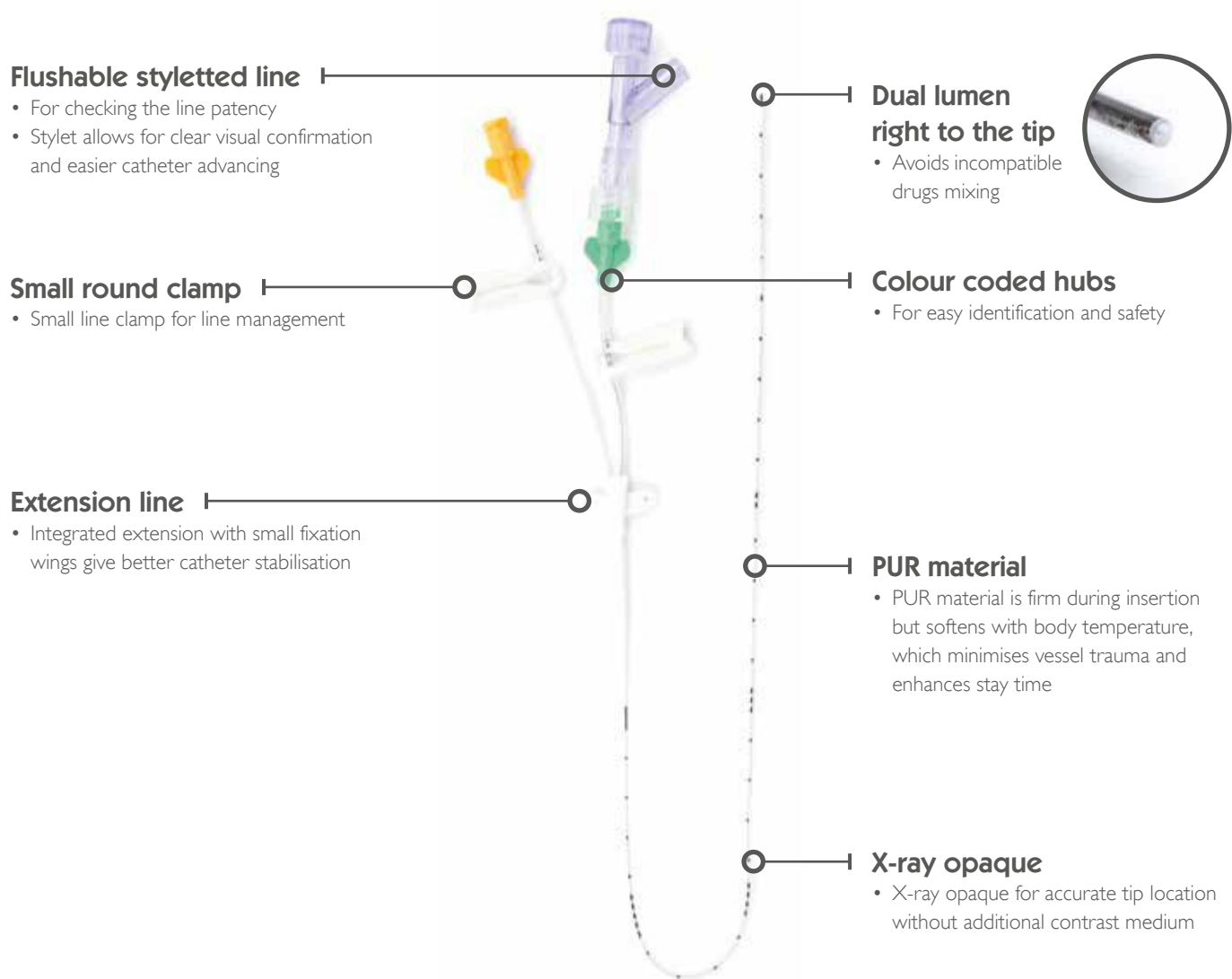
Vygon code	NHSSC code	Description	Stylet	Catheter				Box qty
				Size (G)	Length (cm)	Priming vol (mL)	Flow rate (mL/min*)	
I252.030	FSQ2107	X-ray opaque graduated PUR 2Fr catheter with micro <b>flash</b> introducer	Yes	24	30	0.12	5.00	10
I352.302	FSQ338	X-ray opaque graduated PUR 2Fr catheter with micro <b>flash</b> introducer	No	24	30	0.12	5.00	10
I352.152	FSQ337	X-ray opaque graduated PUR 2Fr catheter with micro <b>flash</b> introducer	No	24	15	0.06	9.00	10
I353.302	FSQ340	X-ray opaque graduated PUR 3Fr catheter with peelable introducer	No	20	30	0.16	2.80	10

# nutri<sup>line</sup><sup>®</sup>

## TWINFLO

### A 2Fr dual lumen catheter with peelable needle

nutri<sup>line</sup> twinflo has been designed specifically for babies who require multiple infusions. Its dual lumen tip design offers enhanced fluid management and avoids incompatible drugs mixing.



#### Flushable stylet

- For checking the line patency
- Stylet allows for clear visual confirmation and easier catheter advancing

#### Small round clamp

- Small line clamp for line management

#### Extension line

- Integrated extension with small fixation wings give better catheter stabilisation

#### Dual lumen right to the tip

- Avoids incompatible drugs mixing

#### Colour coded hubs

- For easy identification and safety

#### PUR material

- PUR material is firm during insertion but softens with body temperature, which minimises vessel trauma and enhances stay time

#### X-ray opaque

- X-ray opaque for accurate tip location without additional contrast medium

### Ordering codes

Vygon code	NHSSC code	Description	Stylet	Catheter						Box qty
				Exit point	Size (G)	Length (cm)	Priming vol (mL)	Flow rate (mL/min*)	Hub colour	
001252230	FSQ2108	X-ray opaque graduated dual lumen PUR catheter with microflash introducer	Yes	Lateral	24	30	0.2	1.45	Yellow	10
				Distal	24	30	0.2	1.45	Green	
1252235	FSU252	X-ray opaque graduated dual lumen PUR catheter with microflash introducer	No	Lateral	24	30	0.2	1.45	Yellow	10
				Distal	24	30	0.2	1.45	Green	

\*Tested at 1 bar/14.5psi

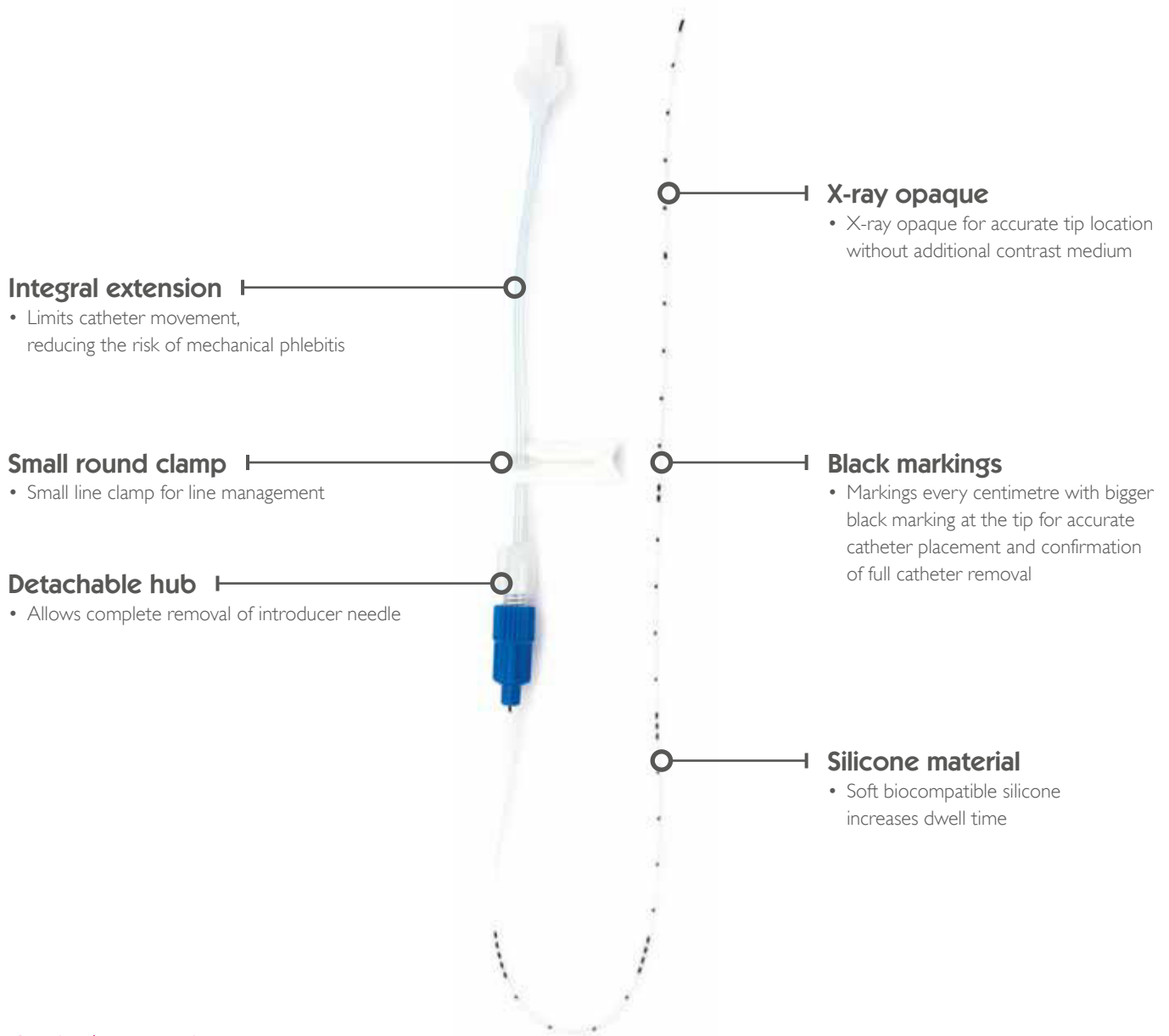


# epicutaneo<sup>®</sup>

CAVA

A 2Fr neonatal silicone PICC line

24G ECC is our original neonatal PICC line and one of the most recognised paediatric catheters in the world today.



**Integral extension**

- Limits catheter movement, reducing the risk of mechanical phlebitis

**Small round clamp**

- Small line clamp for line management

**Detachable hub**

- Allows complete removal of introducer needle

**X-ray opaque**

- X-ray opaque for accurate tip location without additional contrast medium

**Black markings**

- Markings every centimetre with bigger black marking at the tip for accurate catheter placement and confirmation of full catheter removal

**Silicone material**

- Soft biocompatible silicone increases dwell time

## Ordering codes

Vygon code	NHSSC code	Description	Catheter				Box qty
			Size (G)	Length (cm)	Priming vol (mL)	Flow rate (mL/min*)	
2184.015	FSY090	X-ray opaque graduated silicone catheter	24	15	0.10	4.00	30
2184.00	FSY088		24	30	0.12	3.00	30
2184.005	FSY089		24	50	0.16	2.00	30

\*Tested at 14.5psi

# Neonatal PICC placement pack

Our neonatal PICC placement pack contains everything required to safely & efficiently place a neonatal PICC line



## The benefits of our neonatal PICC placement packs



### Cost saving

A complete pack costs less than buying the individual components.



### Delivers better patient care

Pack enables Aseptic Non Touch Technique for catheter placement to minimise infections. Also allows traceability of pack components used.



### Reinforces best practice

Pack includes a heat sealed drape (to maximise the sterile barrier) and a safety hypodermic needle (to minimise the risk of accidental needlestick injuries).



### Standardises procedures

Consistent clinical practice assured with identical pack contents.



### More environmentally friendly

Less waste with a pack compared to multiple packaging of individual components.



**Each pack contains**

	2x 45x75cm non-adhesive drapes		40x40cm fenestrated transparent drape with "Easy-peel"		2x 38x38cm drape towels
	1x pair of 9cm neonatal scissors		4x ball of swabs 2.5Gr XRO		5x swabs 7.5x7.5cm, 8-ply
	1x transparent gallipot 60mL		1x red gallipot 60mL		Outer wrap
	Instructions for use		2x measuring tape		Neonatal tourniquet
	Iris forceps full curved without teeth 10cm		Iris forceps straight without teeth 10cm		Blue prep forceps
	Luer-slip 10mL syringe		Opaque tray		1x fixation strips
	2x Tegaderm™ dressings 4x4cm				

**Ordering code**

Vygon code	NHSSC code	Description	Box qty
80.199.519	FSU453	Neonatal PICC placement pack	20



**Did you know?**

33% of long line complications are due to line infection.<sup>(15)</sup>  
 Sepsis has been cited as one of the most common complications for percutaneous long lines.<sup>(15)</sup>



# Introducers

A large choice of introducers to suit all users



## 24G breakaway needle

The smallest split introducer for small veins



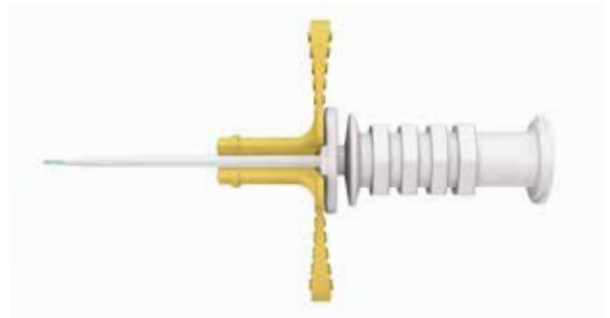
## 17G peelable introducer

Basic non-peelable introducer



## 20G split microflash®

Fast detection of blood return



## microsite®

A dedicated introducer kit for the placement of neonatal longlines in small veins

## Ordering codes

Vygon code	NHSSC code	Description	Needle size (G)	Needle length (mm)	OD (mm)	Peelable sheath size (Fr)	Box qty
7366.510	FTR438	Breakaway needle	24	18	0.7	N/A	25
7370.04	FSP241	Peelable introducer	17	32	1.5	4	25
7370.19	FSP244	microflash introducer	20	18	1.1	2	25
1147.02	FSU544	microsite introducer kit	24	19	1.91	2	10



# readysets

Designed to meet all of your infusion requirements from simple single infusions to multiple simultaneous infusions



readysset feed



Safe T-piece



readysset unite



readysset unite

## Ordering codes

Vygon code	NHSSC code	Description	Filter	Tube length (cm)	Priming vol (mL)	Box qty
0836.201	FTC224	readysset feed	Yes	15	0.84	10
			No	2	0.24	
0836.204	FTC227	Safe T-piece	Yes	11	0.64	10
0836.205	FTC225	readysset unite	Yes	20.5	0.98	10
			Yes	20.5	0.98	
			No	2	0.26	
0836.210	-	readysset unite with bionector	Yes	20.5	1.00	10
			Yes	20.5	1.00	
			No	2	0.26	

The filters in the **bionector** readyssets range are not suitable for blood or lipid products. Do not attempt to administer lipids or lipid carried medications through a 0.22 micron (green) filter.

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