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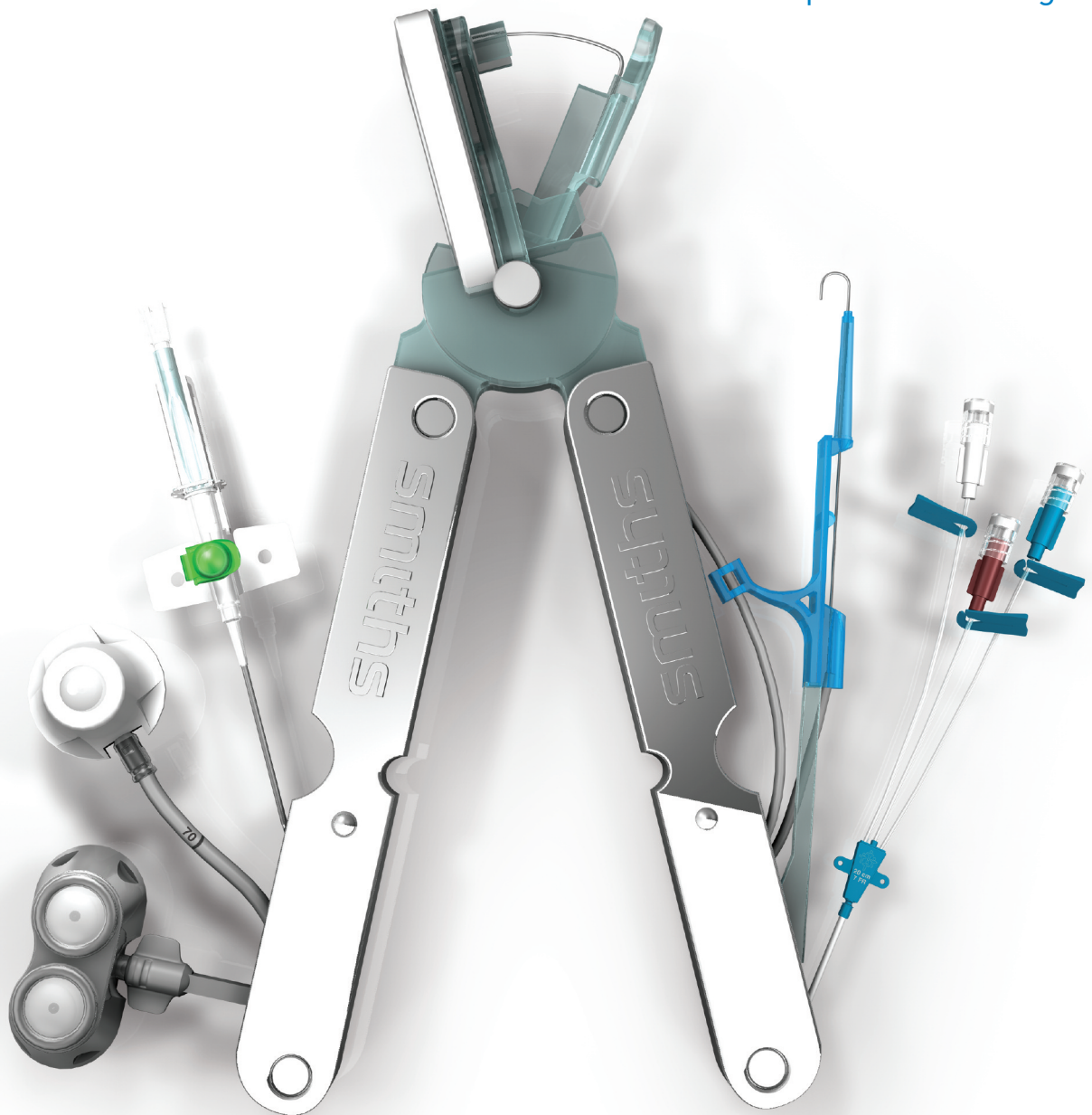
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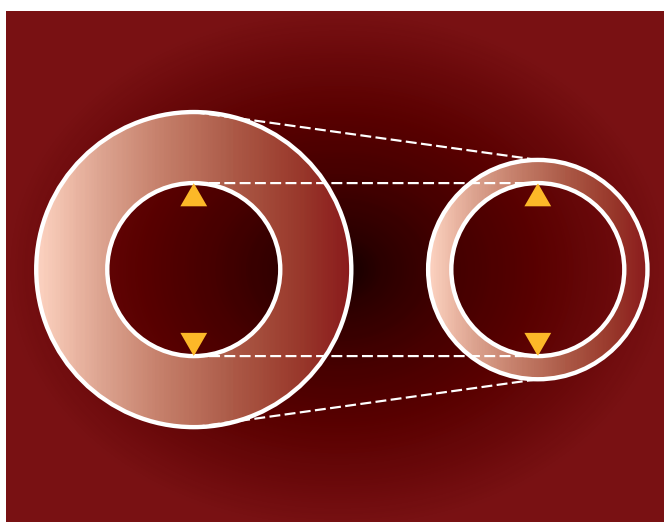
Vascular Access

product catalogue

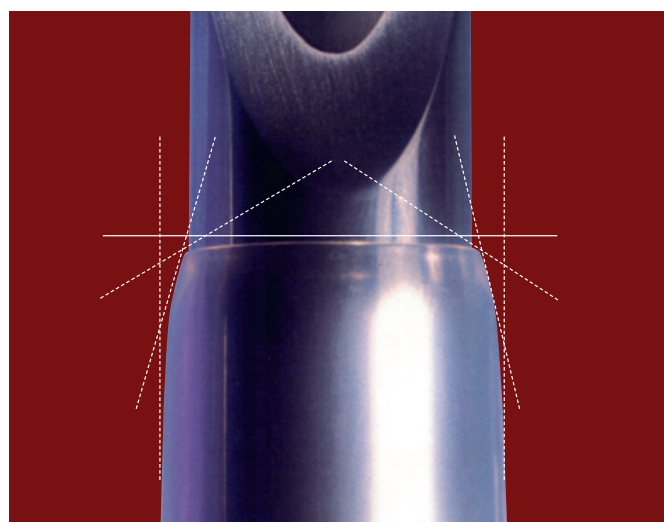


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The Thin Walled Design



Precision Bevel

With Jelco® and OPTIVA® Smiths Medical offers a comprehensive range of conventional IV catheters. The catheters are available in straight hub, winged, and ported versions in a variety of lengths and gauge sizes to help meet patients' and therapeutic requirements.

OPTIVA® catheters are available in clear yet radio opaque polyurethane. The polyurethane used in OPTIVA® IV catheters is firm for controlled insertion but softens whilst indwelling to conform to the contour of the vein.

Jelco® IV catheters are available with a FEP polymer construction which also enables firm, controlled insertion.

Catheters feature a thin walled design that optimizes flow rate potential for each gauge size, allowing the clinician to choose smaller catheters without compromising on flow rates.

The precision beveled catheter tip and optimally engineered needle ensures smooth insertion, resulting in less patient trauma.

OPTIVA® IV Catheter Straight Hub

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.2mm	50mm	315	4215	5068
	16G	1.8mm	32mm	225		5061
	16G	1.8mm	50mm	210	4217	5062
	18G	1.3mm	45mm	100	4218	5064
	18G	1.3mm	32mm	110	4219	5065
	20G	1.1mm	45mm	60		5069
	20G	1.1mm	32mm	65	4220	5066
	22G	0.9mm	25mm	38	4222	5060
	24G	0.7mm	19mm	24	4224	5063



OPTIVA®
I.V. Catheters

OPTIVA® W IV Catheter Winged

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.2mm	45mm	310	4514	1114
	16G	1.8mm	45mm	200	4516	1116
	18G	1.3mm	45mm	95	4518	1118
	18G	1.3mm	32mm	95	4519	1119
	20G	1.1mm	32mm	60	4520	1120
	22G	0.9mm	25mm	35	4522	1122
	24G	0.7mm	19mm	20	4524	1124



OPTIVA® W
I.V. Catheters
(with fixation wings)

OPTIVA® 2 IV Catheter Injection Port

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.2mm	45mm	315	4514	1014
	16G	1.8mm	45mm	210	4516	1016
	18G	1.3mm	45mm	100	4518	1018
	18G	1.3mm	32mm	110	4519	1019
	20G	1.1mm	32mm	65	4520	1020
	22G	0.9mm	25mm	38	4522	1022



OPTIVA® 2 I.V. Catheters
(with injection valve)

STANDARD IV CATHETERS

JELCO® IV Catheter Straight Hub Radiopaque

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.1mm	50mm	315	4215	4038
	16G	1.7mm	50mm	210	4217	4032
	18G	1.3mm	45mm	100	4218	4034
	18G	1.3mm	32mm	110	4219	4035
	20G	1.1mm	45mm	60		4039
	20G	1.1mm	32mm	65	4220	4036
	22G	0.9mm	25mm	38	4222	4030
	24G	0.7mm	19mm	24	4224	4033



JELCO®
I.V. Catheters
(radiopaque)

JELCO® IV Catheter Straight Hub Clear Non Radiopaque

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.1mm	50mm	315	4215	4018
	16G	1.7mm	50mm	210	4217	4012
	18G	1.3mm	45mm	100	4218	4014
	20G	1.1mm	32mm	65	4220	4016
	22G	0.9mm	25mm	38	4222	4010
	24G	0.7mm	19mm	24	4224	4013



JELCO®
I.V. Catheters Clear
(non radiopaque)

JELCO® IV Catheter Winged Radiopaque

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	20G	1.1mm	32mm	65	4220	4076
	22G	0.9mm	25mm	37	4222	4070
	24G	0.7mm	16mm	24	4224	4073



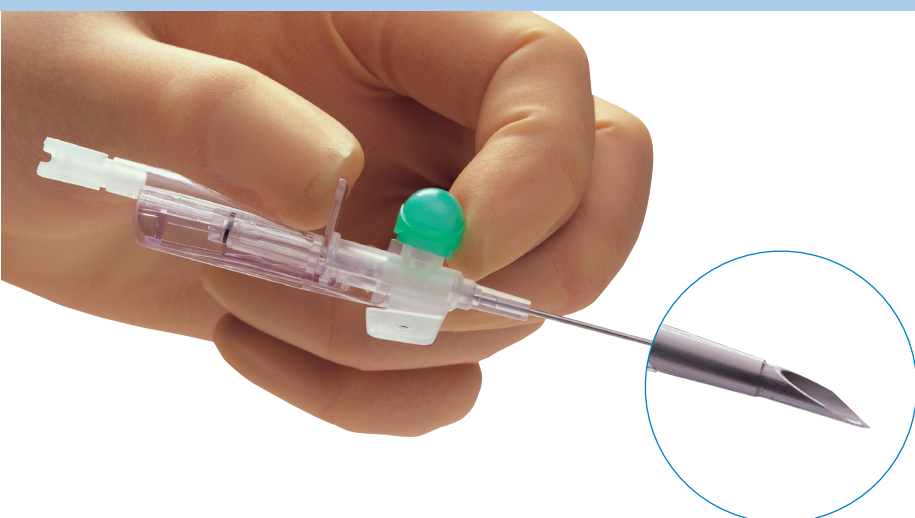
JELCO® W
I.V. Catheters with
fixation wings
(radiopaque)

JELCO® IV Catheter Injection Port Radiopaque

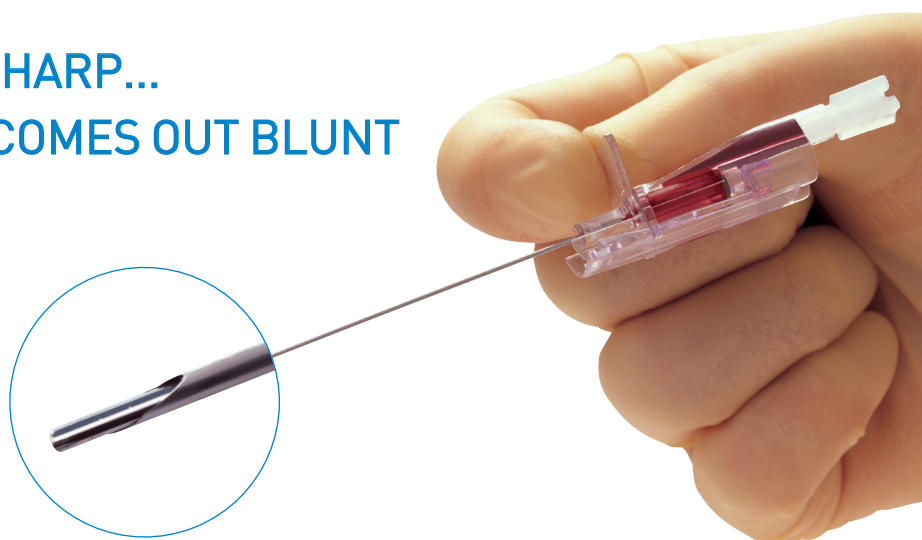
	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.1mm	45mm	315	4514	MR14
	16G	1.7mm	45mm	210	4516	MR16
	18G	1.3mm	45mm	100	4518	MR18
	18G	1.3mm	32mm	110	4519	MR19
	20G	1.1mm	32mm	65	4520	MR20
	22G	0.9mm	25mm	38	4522	MR22



JELCO® 2
I.V. Catheters
with injection valve
(radiopaque)



**GOES IN SHARP...
...COMES OUT BLUNT**



Needlestick still pose the greatest occupational risk for transmitting HIV and other blood borne pathogens. I.V. catheter needles (hollow bore, blood filled needles) are associated with the greatest incidence of high – risk needlestick injuries.^{1, 2}

Smiths Medical offers 2 safety IV catheters, PROTECTIV® ACUVANCE® and PROTECTIV®, designed to reduce percutaneous injuries. Both catheters feature polyurethane tubing, a thin wall design and optimally engineered needle and precision bevel catheter.

PROTECTIV® ACUVANCE® insertion requires minimal change in technique and no extra step.

Once the catheter hub is threaded off the needle, the unique safety mechanism automatically extends the blunt beyond the needle tip prior to removal from the patient, thereby significantly reducing the risk of needlestick injury.

PROTECTIV® IV catheter offers a user friendly design, allowing one-handed catheter insertion technique and controlled catheter placement.

References

1. Ippolito G et al. Prevention Management and Chemoprophylaxis of Occupational Exposure to HIV International Health Care Worker Safety Center and Advances in Exposure Prevention, University of Virginia 1997.
2. Advances in Exposure Prevention 1998; 3(4): 37-48.

SAFETY IV CATHETERS

ACUVANCE® Plus IV Safety Catheter Straight Hub PUR

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.2mm	52mm	314		3358
	16G	1.8mm	52mm	208		3352
	16G	1.8mm	32mm	215		3342
	18G	1.3mm	45mm	100	4218	3354
	18G	1.3mm	32mm	110	4619	3355
	20G	1.1mm	32mm	63	4220	3356
	20G	1.1mm	25mm	65		3357
	22G	0.9mm	25mm	38	4622	3350
	24G	0.8mm	16mm	24	4524	3353



ACUVANCE® Plus

ACUVANCE® Plus IV Safety Catheter Winged PUR

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	18G	1.4mm	32mm	110		3375
	20G	1.2mm	32mm	63		3376
	22G	1.0mm	25mm	38		3370
	24G	0.8mm	16mm	24		3373

ACUVANCE® 2 IV Safety Catheter Injection Port PUR

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
	14G	2.2mm	45mm	315	4514	1714
	16G	1.8mm	45mm	210	4516	1716
	18G	1.3mm	45mm	100	4518	1718
	18G	1.3mm	32mm	105	4519	1719
	20G	1.1mm	32mm	65	4520	1720
	22G	0.9mm	25mm	38	4522	1722



ACUVANCE® 2

PROTECTIV® IV Safety Catheter Straight Hub FEP

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2mm	32mm	325	P214	3048
●	16G	1.8mm	32mm	215	P216	3042
●	18G	1.3mm	32mm	110	4219	3055
●	20G	1.1mm	32mm	63	4220	3056
●	22G	0.9mm	25mm	38	4222	3050
●	24G	0.7mm	19mm	24	4224	3053



PROTECTIV® Plus

PROTECTIV® W IV Safety Catheter Winged FEP

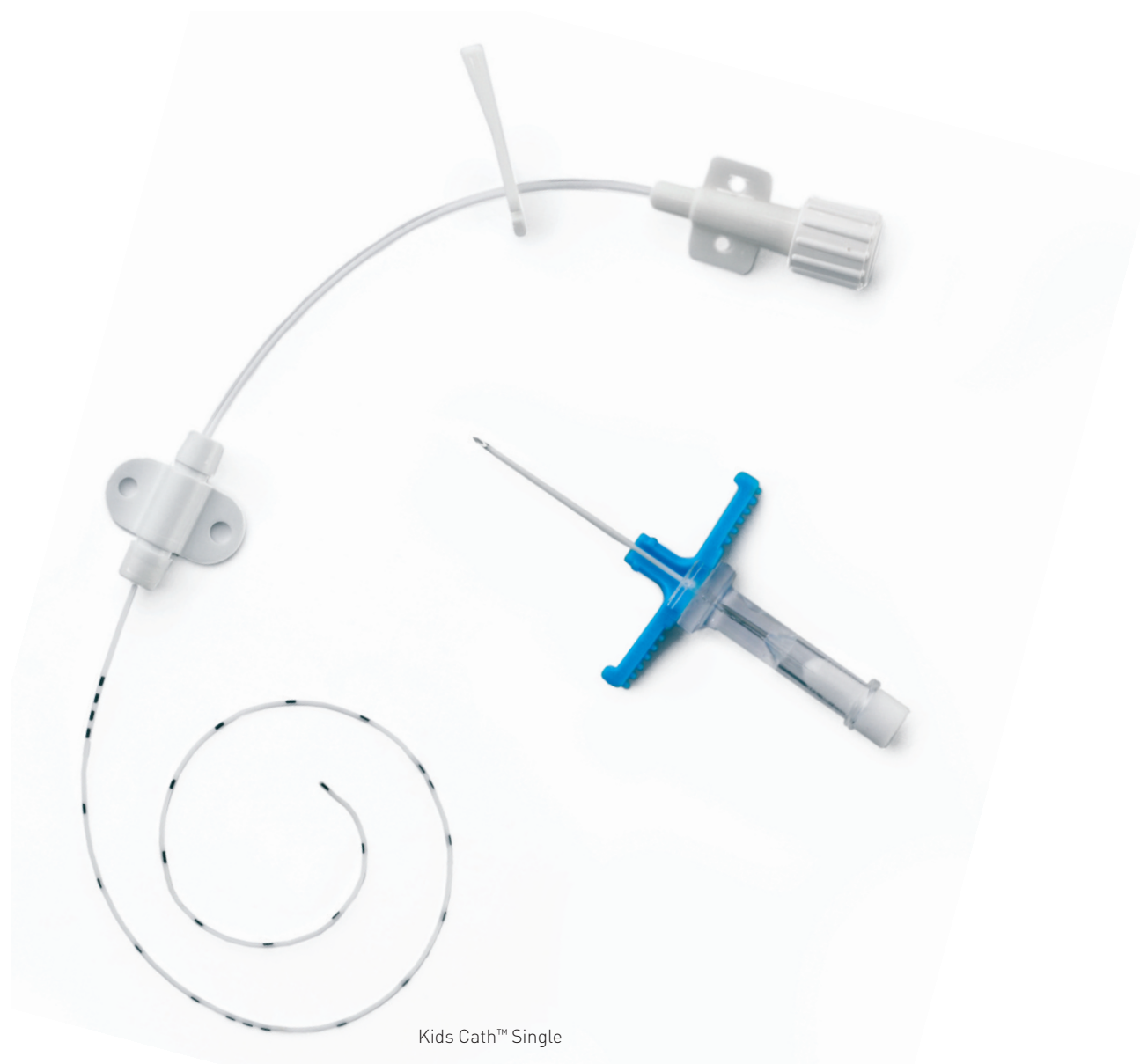
	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2mm	30mm	325	P214	3078
●	16G	1.8mm	30mm	215	P216	3072
●	18G	1.3mm	30mm	110	4219	3075
●	20G	1.1mm	30mm	63	4220	3076
●	22G	0.9mm	24mm	38	4222	3070
●	24G	0.7mm	15mm	24	4224	3073

PROTECTIV® Plus IV Safety Catheter Straight Hub PUR

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2mm	32mm	325	P214	3068
●	16G	1.8mm	32mm	215	P216	3062
●	18G	1.3mm	32mm	110	4219	3065
●	20G	1.1mm	32mm	63	4220	3066
●	22G	0.9mm	25mm	38	4222	3060
●	24G	0.7mm	19mm	24	4224	3063

PROTECTIV® Plus W IV Safety Catheter Winged PUR

	Gauge	O.D	Length	Flowrate ml/min	Obturator	Product Codes
●	14G	2.2mm	30mm	325	P214	3088
●	16G	1.8mm	30mm	215	P216	3082
●	18G	1.3mm	30mm	110	4219	3085
●	20G	1.1mm	30mm	63	4220	3086
●	22G	0.9mm	24mm	38	4222	3080
●	24G	0.7mm	15mm	24	4224	3083



Kids Cath™ Single

Therapeutic regimes of neonatal and paediatric patients demand the use of specialised catheters. Smiths Medical has focused on that problem and offers a range of catheters to meet the special demands on both the material and design.

All catheters within the Kids Cath™ range are made of polyurethane and are therefore DEHP free.

Kids Cath™ Neo

A 27G single lumen catheter with integrated guidewire specially developed for premature infants with a birth weight less than 1000g. This catheter is available in different length and can be inserted with a 24G IV catheter.

Kids Cath™ Single

For infants with a birth weight more than 1000g. This catheter is provided with a 22G sheath introducer and is available in different length.

Kids Cath™ Umbilical

A range of single, double and triple lumen venous umbilical catheters.

Premature infants birth weight less 1000g 1 LUMEN Kids Cath™ Neo

Description	I.D / O.D	Lumen	Introducer	Case Qty	Product Codes
KidsCathNeo 1 Lumen 27G 12cm	0.18x0.4mm			10	MXC0712
KidsCathNeo 1 Lumen 27G 20cm	0.18x0.4mm			10	MXC0720
KidsCathNeo 1 Lumen 27G 30cm	0.18x0.4mm			10	MXC0730



Kids Cath™ Neo

Infants birth weight more than 1000g 1 LUMEN Kids Cath™ Single

Description	I.D / O.D	Lumen	Introducer	Case Qty	Product Codes
KidsCath Single1 Lumen 23G 20cm	0.4x0.6mm		22G (0.71mm) 3cm	10	MXC1020-2
KidsCath Single1 Lumen 23G 33cm	0.4x0.6mm		22G (0.71mm) 3cm	10	MXC1033-2
KidsCath Single1 Lumen 23G 50cm	0.4x0.6mm		22G (0.71mm) 3cm	10	MXC1050-2

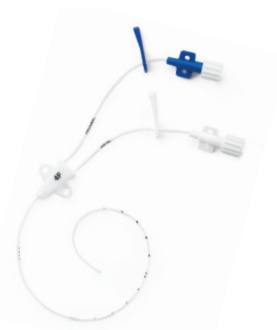
Kids Cath™ Single



1 LUMEN Kids Cath™ Umbilical

Description	O.D	Lumen	Introducer	Case Qty	Product Codes
KidsCath Umbilical 1 Lumen 4F 20cm	1.33mm			10	MXC2120-4

Kids Cath™ Umbilical



2 LUMEN Kids Cath™ Umbilical

Description	O.D	Lumen	Introducer	Case Qty	Product Codes
KidsCath Umbilical 2 Lumen 4F 20cm	1.33mm	24G/24G		10	MXC2220-4
KidsCath Umbilical 2 Lumen 4F 30cm	1.33mm	24G/24G		10	MXC2230-4

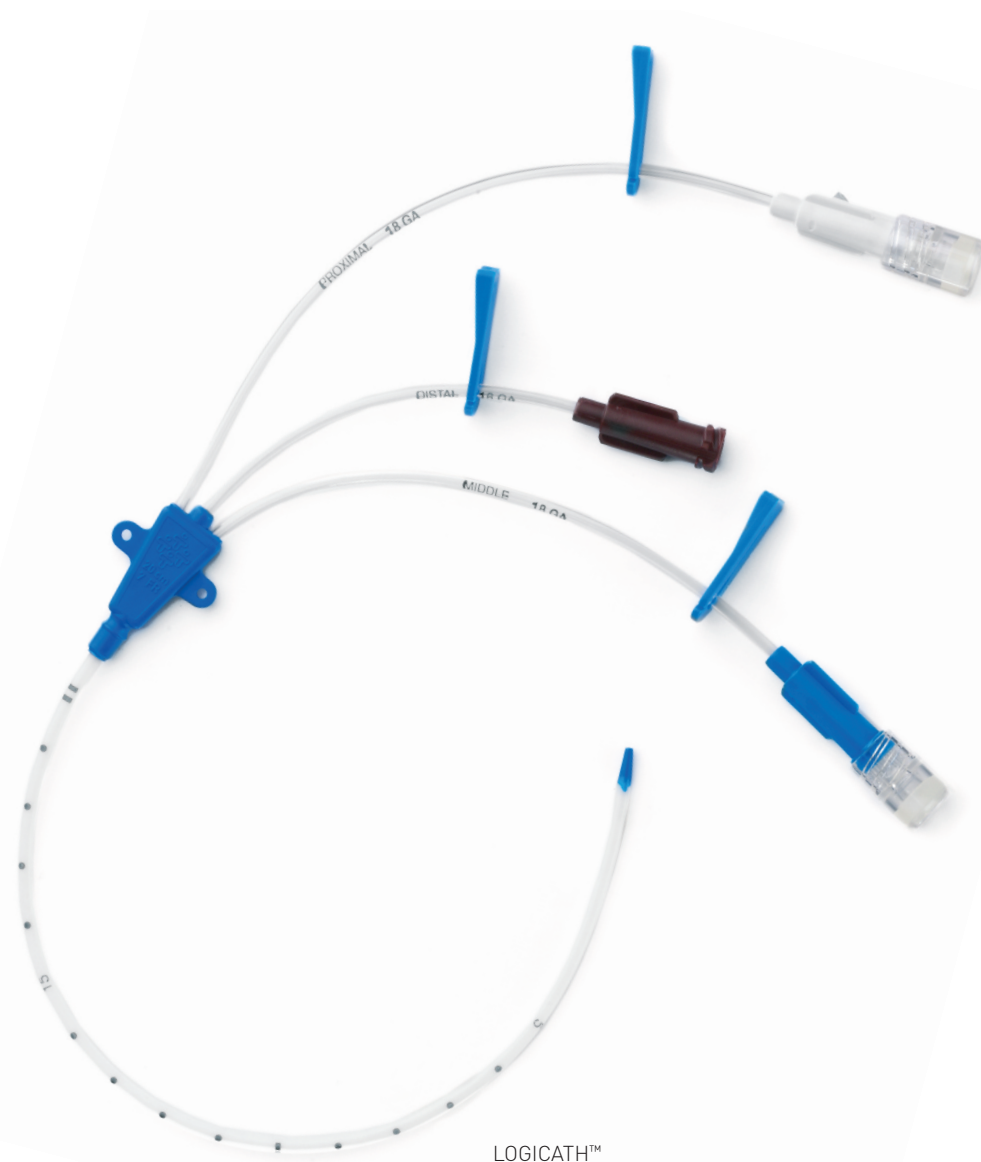
3 LUMEN Kids Cath™ Umbilical

Description	O.D	Lumen	Introducer	Case Qty	Product Codes
KidsCath Umbilical 3 Lumen 4F 30cm	1.33mm	24G/25G/25G		10	MXC2320-4

Flowrate and Priming Volume Kids Cath™

Birth Weight	Priming Volume (Distal)	Priming Volume Blue (Prox)	Priming Volume Yellow (Middle)	Flowrate White ml/h (Distal)	Flowrate Blue ml/h (Prox)	Flowrate Yellow ml/h (Middle)	Product Codes
<1000g	0,05ml			7,7			MXC0712
<1000g	0,06ml			5,0			MXC0720
<1000g	0,08ml			3,8			MXC0730
>1kg	0,1ml			138,5			MXC1020-2
>1kg	0,11ml			92,3			MXC1033-2
>1kg	0,13ml			65,8			MXC1050-2
	0,19ml			689			MXC2120-4
	0,2ml	0,17ml		520,9	167,2		MXC2220-4
	0,22ml	0,2ml		373,9	95,2		MXC2230-4
	0,22ml	0,17ml	0,18ml	503	128,7	193	MXC2320-4

Gravity flow 100cm head height normal saline solution.



Smiths Medical offers a comprehensive range of acute central venous catheters. LOGICATH™, our conventional catheter and LOGICATH™ *AgTive* our antimicrobial catheter are available in different lengths, outside diameters, lumen and set configurations to meet both healthcare worker and patient demands.

The benefits of LOGICATH™ and LOGICATH™ *AgTive* central venous catheters are achieved using a range of features:

Polyurethane Catheter Material

The family of LOGICATH™ Central Venous Catheters are all made of polyurethane. At room temperature the catheter is stiff and difficult to kink and so easy to introduce. Once in the body it softens and reduces the potential for vessel trauma.

Soft Catheter Tip

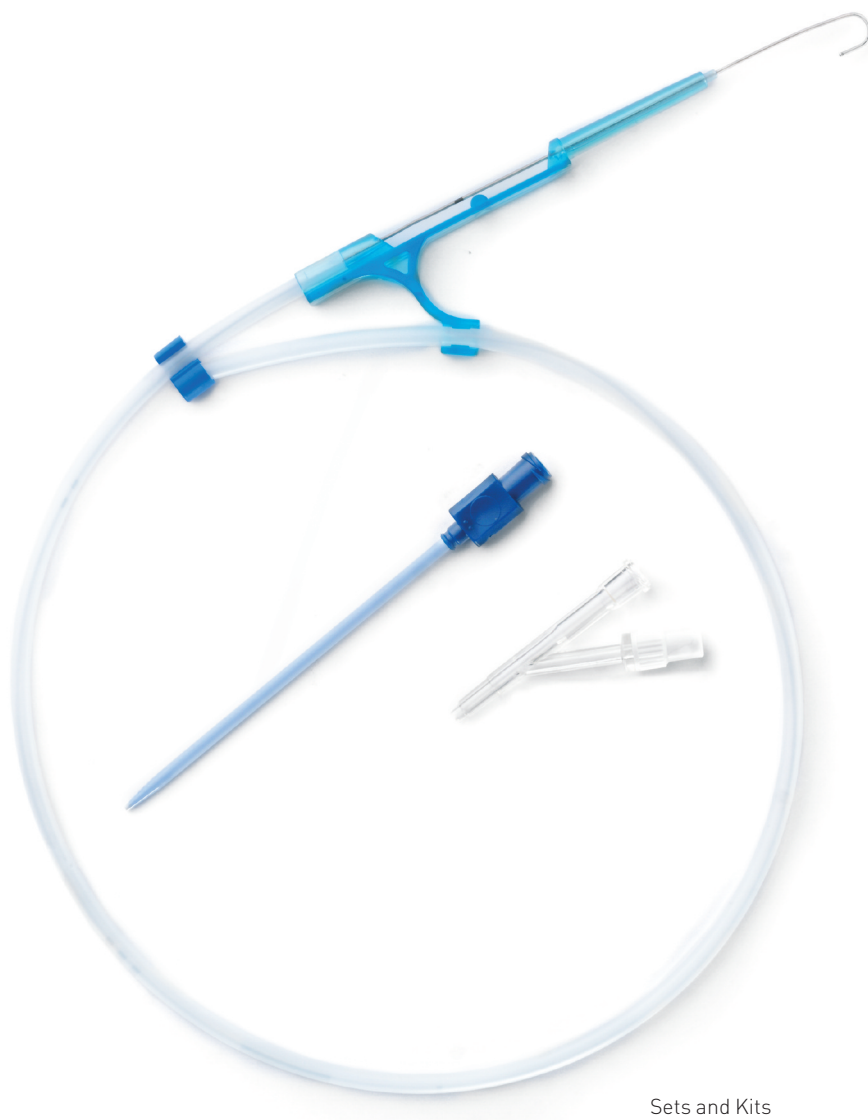
The soft radio opaque conical catheter tip, which helps to reduce vessel irritation, forms a seamless junction with the catheter body. Most of the LOGICATH™ family central venous catheters are provided with a soft tip.

Clearly Marked Extensions and Colour Coded Hubs

The clearly marked extensions allow catheter manipulation to be performed well away from the insertion site, thus reducing the risk of infection. Different lengths of extensions and colour coded hubs allow easy and reliable lumen identification.

Dilator

The specially formed dilator tip provides a smooth transition with the guidewire to reduce the risk of skin irritation and dilator tip breakage. The sharp dilator tip reduces the need for a scalpel to enlarge the access site. Dilators are tailored to each catheter size.



Sets and Kits

Y-Site Adaptor

The special Y-site adaptor fits between the syringe and introducer needle during catheter introduction. The guidewire is introduced through the side arm of the Y, thus eliminating the need to remove the syringe. This prevents blood loss and exposure to blood borne pathogens.

Sets and Kits

LOGICATH™ and LOGICATH™ *AgTive* central venous catheters are available in different set and kit configurations. The standard set provides all components necessary for the placement of a central venous catheter. The kit version features additional components for the insertion of a central venous catheter to maximise infection prevention by a more procedural approach.

Standard Set Content:

- LOGICATH™ conventional or antimicrobial catheter.
- Dilator.
- Introducer needle.
- Guidewire.
- Syringe.
- Catheter fastener and clamp.
- Injection caps.
- Y-site adaptor (for 14G, 16G, 7F, 8.5F and 12F catheters only).
- Scalpel.
- Traceability label.

These standard sets are also available as cost effective yet high quality MINI sets without a scalpel and Y-site adaptor for most of our conventional LOGICATH™ catheters.

Standard catheter sets without a Y-site adaptor are also available for a majority of catheters.

Standard Kit Content:

- LOGICATH™ conventional or antimicrobial catheter.
- Dilator.
- Introducer needle.
- Guidewire.
- Syringe.
- Catheter fastener and clamp.
- Injection caps.
- Y-site adaptor (for 14G, 16G, 7F, 8.5F and 12F catheters only).
- Scalpel.
- Traceability label.
- 90x90cm fenestrated CVC drape.
- Gauze pads.
- Initial 24Hr gauze dressing.
- Pre-mounted 4-way blue lipid resistant stopcocks.
- Needle container.
- STATLOCK® CV PLUS.

LOGICATH™ Adult Catheters

1 LUMEN LOGICATH™ 16G without extension

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 1 Lumen 16G 16cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x16x16
LOGICATH™ Set 1 Lumen 16G 16cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x16x16G
LOGICATH™ Set 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16
LOGICATH™ Mini Set 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16M
LOGICATH™ Set 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16G
LOGICATH™ Set 1 Lumen 16G 30cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x30x16

with extension

LOGICATH™ Set 1 Lumen 16G 16cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x16x16V
LOGICATH™ Set 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16V
LOGICATH™ Mini Set 1 Lumen 16G	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16VM
LOGICATH™ Set 1 Lumen 16G 30cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x30x16V

1 LUMEN LOGICATH™ Kit 16G

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x16V-E

1 LUMEN LOGICATH™ 14G without extension

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 1 Lumen 14G 16cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x16x14
LOGICATH™ Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14
LOGICATH™ Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14G
LOGICATH™ Set 1 Lumen 14G 30cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x30x14

with extension

LOGICATH™ Set 1 Lumen 14G 16cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x16x14V
LOGICATH™ Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14V
LOGICATH™ Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14VG
LOGICATH™ Mini Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14VM
LOGICATH™ Set 1 Lumen 14G 30cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x30x14V

1 LUMEN LOGICATH™ Kit 14G

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA231x20x14V-E

2 LUMEN LOGICATH™ 7F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x16x70
LOGICATH™ Set 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x16x70G
LOGICATH™ Set 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x16x70M
LOGICATH™ Set 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x20x70
LOGICATH™ Set 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x20x70G
LOGICATH™ Mini Set 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x20x70M
LOGICATH™ Set 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x30x70
LOGICATH™ Set 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x30x70G
LOGICATH™ Mini Set 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x30x70M
LOGICATH™ Set 2 Lumen 7F 16G/16G	2.34mm	16G/16G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x16x75
LOGICATH™ Set 2 Lumen 7F 16G/16G	2.34mm	16G/16G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x20x75
LOGICATH™ Set 2 Lumen 7F 16G/16G	2.34mm	16G/16G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x30x75

2 LUMEN LOGICATH™ Kit 7F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x16x70-E
LOGICATH™ Kit 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x20x70-E
LOGICATH™ Kit 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA232x30x70-E

2 LUMEN LOGICATH™ 8.5F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set Lumen 8.5F 16cm	2.77mm	14G/14G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA232x16x85
LOGICATH™ Set 2 Lumen 8.5F 20cm	2.77mm	14G/14G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA232x20x85
LOGICATH™ Set 2 Lumen 8.5F 20cm	2.77mm	14G/14G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA232x20x85G
LOGICATH™ Set 2 Lumen 8.5F 25cm	2.77mm	14G/14G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA232x25x85

2 LUMEN LOGICATH™ 12F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 2 Lumen 12F 16cm	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA232x16x12
LOGICATH™ Set 2 Lumen 12F 20cm	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA232x20x12

2 LUMEN LOGICATH™ 12F Hemo Dialysis

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 2 Lumen 12F 16cm	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA232x16x12S
LOGICATH™ Set 2 Lumen 12F 20cm	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA232x20x12S

3 LUMEN LOGICATH™ 7F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x16x70
LOGICATH™ Set 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x16x70G
LOGICATH™ mini Set 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x16x70M
LOGICATH™ Set 3 Lumen 7F 20cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x20x70
LOGICATH™ Set 3 Lumen 7F 20cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x20x70G
LOGICATH™ Mini Set 3 Lumen 7F 20	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x20x70M
LOGICATH™ Set 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x30x70
LOGICATH™ Set 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x30x70G
LOGICATH™ Mini Set 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x30x70M

3 LUMEN LOGICATH™ Kit 7F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x16x70-E
LOGICATH™ Kit 3 Lumen 7F 20cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x20x70-E
LOGICATH™ Kit 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA233x30x70-E

3 LUMEN LOGICATH™ 8.5F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 8.5F 16cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x16x85
LOGICATH™ Set 3 Lumen 8.5F 16cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x16x85G
LOGICATH™ Set 3 Lumen 8.5F 20cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x20x85
LOGICATH™ Set 3 Lumen 8.5F 20cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x20x85G
LOGICATH™ Set 3 Lumen 8.5F 25cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x25x85
LOGICATH™ Set 3 Lumen 8.5F 30cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x30x85

3 LUMEN LOGICATH™ Kit 8.5F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 3 Lumen 8.5F 16cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x16x85-E
LOGICATH™ Kit 3 Lumen 8.5F 20cm	2.77mm	14G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA233x20x85-E

3 LUMEN LOGICATH™ 12F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 12F 16cm	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x16x12
LOGICATH™ Set 3 Lumen 12F 20cm	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x20x12
LOGICATH™ Set 3 Lumen 12F 25cm	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x25x12

3 LUMEN LOGICATH™ 12F Hemo Dialysis

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 12F 16cm	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x16x12S
LOGICATH™ Set 3 Lumen 12F 20cm	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x20x12S

3 LUMEN LOGICATH™ Kit 12F High Flow

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 3 Lumen 12F 16cm HF	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x16x12-E
LOGICATH™ Kit 3 Lumen 12F 20cm HF	4.00mm	16G/12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA233x20x12-E

4 LUMEN LOGICATH™ 8.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 4 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x16x85
LOGICATH™ Set 4 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x20x85G
LOGICATH™ Set 4 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x20x85
LOGICATH™ Set 4 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x25x85
LOGICATH™ Set 4 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x30x85

4 LUMEN LOGICATH™ Kit 8.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 4 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x20x85-E
LOGICATH™ Kit 4 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA234x30x85-E

5 LUMEN LOGICATH™ 8.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 5 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x16x85
LOGICATH™ Set 5 5 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x16x85G
LOGICATH™ Set 5 5 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x20x85
LOGICATH™ Set 5 5 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x20x85G
LOGICATH™ Set 5 5 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x25x85
LOGICATH™ Set 5 5 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x30x85

5 LUMEN LOGICATH™ KIT 8.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 5 5 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x16x85-E
LOGICATH™ Kit 5 5 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x20x85-E
LOGICATH™ Kit 5 5 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA235x30x85-E

LOGICATH™ Paediatric Catheters

1 LUMEN LOGICATH™ with extension

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 1 Lumen 24G 10cm	0.5x0.7mm		20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	4.5F (1.5mm) 6cm	10	MXA231x10x24V
LOGICATH™ Set 1 Lumen 24G 16cm	0.5x0.7mm		20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	4.5F (1.5mm) 6cm	10	MXA231x16x24V
LOGICATH™ Set 1 Lumen 24G 20cm	0.5x0.7mm		20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	4.5F (1.5mm) 6cm	10	MXA231x20x24V
LOGICATH™ Set 1 Lumen 20G 10cm	0.6x0.9mm		20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	4.5F (1.5mm) 6cm	10	MXA231x10x20V
LOGICATH™ Set 1 Lumen 20G 16cm	0.6x0.9mm		20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	4.5F (1.5mm) 6cm	10	MXA231x16x20V
LOGICATH™ Set 1 Lumen 20G 20cm	0.6x0.9mm		20G (0.89mm) 4cm	.018" (.46mm) 60cm straight	4.5F (1.5mm) 6cm	10	MXA231x20x20V
LOGICATH™ Set 1 1 Lumen 20G 16cm	0.6x0.9mm		peelaway cannula			10	MXA231x16x20VS
LOGICATH™ Set 1 Lumen 20G 20cm	0.6x0.9mm		peelaway cannula			10	MXA231x20x20VS

without extension

LOGICATH™ Set 1 Lumen 18G 16cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x16x18
LOGICATH™ Set 1 Lumen 18G 20cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x18
LOGICATH™ Set 1 Lumen 18G 30cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 70cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x30x18

with extension

LOGICATH™ Set 1 Lumen 18G 16cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x16x18V
LOGICATH™ Set 1 Lumen 18G 20cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x20x18V
LOGICATH™ Set 1 Lumen 18G 30cm	0.8x1.3mm		20G (0.89mm) 4cm	.025" (.64mm) 70cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA231x30x18V

2 LUMEN LOGICATH™ 4F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 2 Lumen 4F 5cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x05x40
LOGICATH™ Set 2 Lumen 4F 5cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J-tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x05x40J
LOGICATH™ Set 2 Lumen 4F 8cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x08x40
LOGICATH™ Set 2 Lumen 4F 8cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J-tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x08x40J
LOGICATH™ Set 2 Lumen 4F 10cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x10x40
LOGICATH™ Set 2 Lumen 4F 10cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J-tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x10x40J
LOGICATH™ Set 2 Lumen 4F 12cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x12x40
LOGICATH™ Set 2 Lumen 4F 16cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x16x40
LOGICATH™ Set 2 Lumen 4F 16cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J-tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x16x40J
LOGICATH™ Set 2 Lumen 4F 20cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA232x20x40
LOGICATH™ Set 2 Lumen 4F 20cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J-tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x20x40J

2 LUMEN LOGICATH™ Kit 4F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 2 Lumen 4F 8cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x08x40-E
LOGICATH™ Kit 2 Lumen 4F 12cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA232x12x40-E

2 LUMEN LOGICATH™ 5.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 2 Lumen 5.5F 8cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x08x55
LOGICATH™ Set 2 Lumen 5.5F 10cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x10x55
LOGICATH™ Set 2 Lumen 5.5F 13cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x13x55
LOGICATH™ Set 2 Lumen 5.5F 16cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x16x55
LOGICATH™ Set 2 Lumen 5.5F 20cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x20x55

2 LUMEN LOGICATH™ Kit 5.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 2 Lumen 5.5F 16cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA232x16x55-E

3 LUMEN LOGICATH™ 4F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 4F 5cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x05x40
LOGICATH™ Set 3 Lumen 4F 8cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x08x40
LOGICATH™ Set 3 Lumen 4F 10 cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x10x40
LOGICATH™ Set 3 Lumen 4F 12cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x12x40
LOGICATH™ Set 3 Lumen 4F 16cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x16x40
LOGICATH™ Set 3 Lumen 4F 20cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm straight	5.5F (1.8mm) 6cm	10	MXA233x20x40

3 LUMEN LOGICATH™ Kit 4F

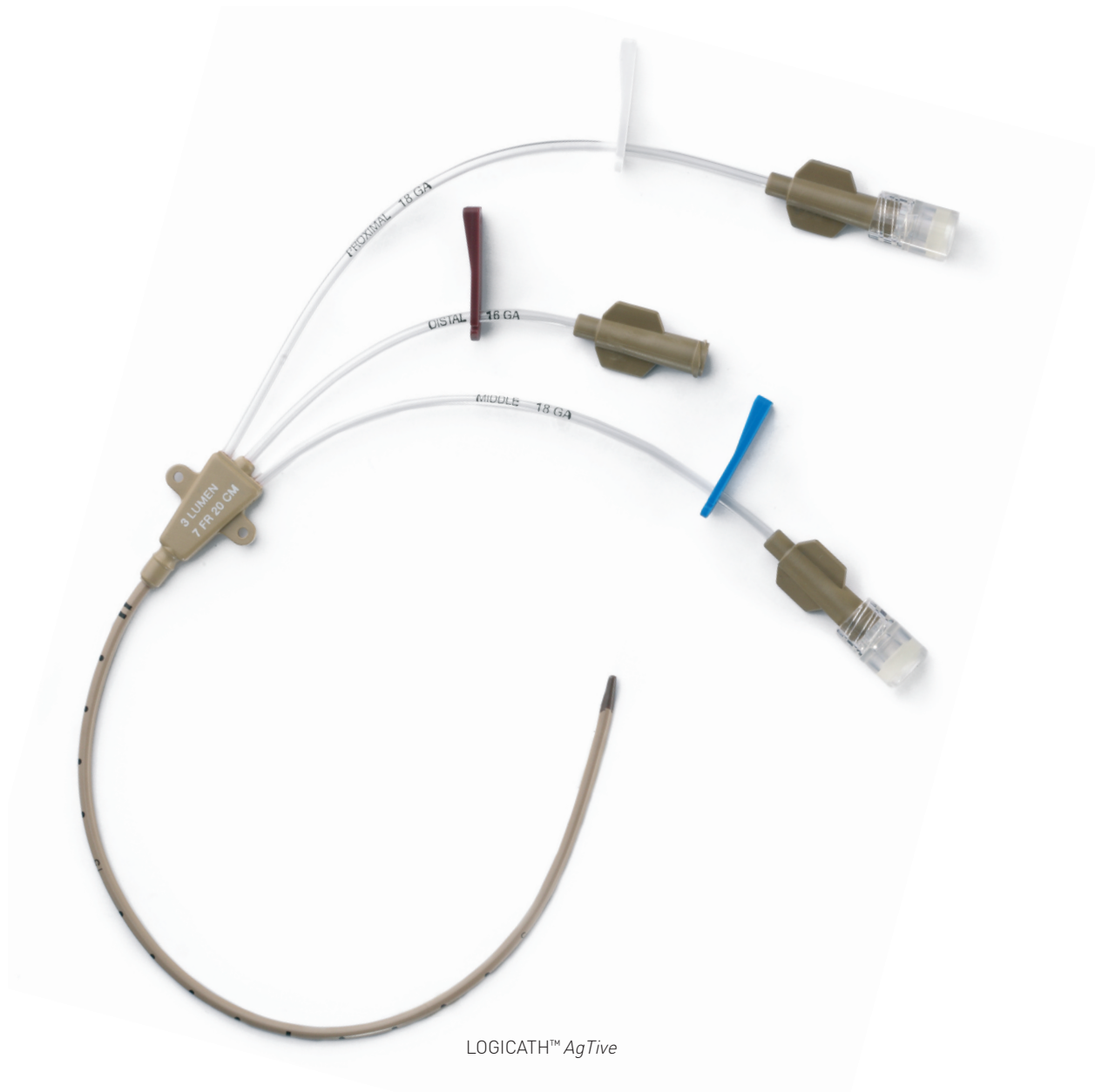
Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 3 Lumen 4F 8cm	1.35mm	20G/24G/24G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA233x08x40-E

3 LUMEN LOGICATH™ 5.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Set 3 Lumen 5.5F 8cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x08x55
LOGICATH™ Set 3 Lumen 5.5F 10cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x10x55
LOGICATH™ Set 3 Lumen 5.5F 13cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x13x55
LOGICATH™ Set 3 Lumen 5.5F 16cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x16x55
LOGICATH™ Set 3 Lumen 5.5F 20cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x20x55
LOGICATH™ Set 3 Lumen 5.5F 30cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x30x55

3 LUMEN LOGICATH™ Kit 5.5F

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ Kit 3 Lumen 5.5F 8cm	1.83mm	18G/22G/22G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA233x08x55-E



Smith Medical's innovative technology offers easy, safe and cost effective use of central venous catheters.

Technology makes the difference

Polyurethanes are hygroscopic and strongly attract water. The unique technology used in LOGICATH™ *AgTive* incorporates nano-sized particles of silver into the polyurethane, allowing the release of bactericidal concentrations of silver ions from both the inner and outer surface of the catheter when in contact with fluids.

LOGICATH™ *AgTive* utilises this technology within the catheter tubing and the delta to maximise infection prevention.

LOGICATH™ *AgTive* Adult Catheters1 LUMEN LOGICATH™ *AgTive* antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA431x20x14V
LOGICATH™ <i>AgTive</i> Set 1 Lumen 14G 30cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA431x30x14V
LOGICATH™ <i>AgTive</i> Set 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA431X20X16V
LOGICATH™ <i>AgTive</i> Set 1 Lumen 16G 30cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA431X30X16V

1 LUMEN LOGICATH™ *AgTive* Kit antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 1 Lumen 14G 20cm	1.4x2.1mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	7.5F (2.4mm) 8cm	10	MXA431x20x14V-E
LOGICATH™ <i>AgTive</i> Kit 1 Lumen 16G 20cm	1.1x1.7mm		18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA431x20x16V-E

2 LUMEN LOGICATH™ *AgTive* 7F antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x16x70
LOGICATH™ <i>AgTive</i> Set 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x20x70
LOGICATH™ <i>AgTive</i> Set 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x30x70

2 LUMEN LOGICATH™ *AgTive* Kit 7F antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 2 Lumen 7F 16cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x16x70-E
LOGICATH™ <i>AgTive</i> Kit 2 Lumen 7F 20cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x20x70-E
LOGICATH™ <i>AgTive</i> Kit 2 Lumen 7F 30cm	2.34mm	14G/18G	18G (1.27mm) 7cm	.035" (.89mm) 70cm J-tip 3mm	8.5F (2.7mm) 8cm	10	MXA432x30x70-E

2 LUMEN LOGICATH™ *AgTive* Kit 8.5F antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 2 Lumen 8.5F 20cm HF	2.77mm	14G/14G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	9.5F (3.0mm) 8cm	10	MXA432x20x85-E

2 LUMEN LOGICATH™ *AgTive* 12F antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 12F 2 Lumen 16cm HF	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA432x16x12
LOGICATH™ <i>AgTive</i> Set 12F 2 Lumen 20cm HF	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA432x20x12

2 LUMEN LOGICATH™ *AgTive* Kit 12F antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 12F 2 Lumen 16cm HF	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA432x16x12-E
LOGICATH™ <i>AgTive</i> Kit 12F 2 Lumen 20cm HF	4.00mm	12G/12G	18G (1.27mm) 7cm	.035" (.89mm) 60cm J-tip 3mm	12F (4mm) 8cm	10	MXA432x20x12-E

3 LUMEN LOGICATH™ *AgTive* 7F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x16x70
LOGICATH™ <i>AgTive</i> Set 3 Lumen 7F 20cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x20x70
LOGICATH™ <i>AgTive</i> Set 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 70cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x30x70

3 LUMEN LOGICATH™ *AgTive* Kit 7F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 3 Lumen 7F 16cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x16x70-E
LOGICATH™ <i>AgTive</i> Kit 3 Lumen 7F 20cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x20x70-E
LOGICATH™ <i>AgTive</i> Kit 3 Lumen 7F 30cm	2.34mm	16G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 70cm J-tip 3mm	8.5F [2.7mm] 8cm	10	MXA433x30x70-E

3 LUMEN LOGICATH™ *AgTive* Kit 8.5F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 3 Lumen 8.5F 20cm	2.77mm	14G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA433x20x85-E

4 LUMEN LOGICATH™ *AgTive* 8.5F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 8.5F 4 Lumen 16cm F	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x16x85
LOGICATH™ <i>AgTive</i> Set 4 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x20x85
LOGICATH™ <i>AgTive</i> Set 4 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x25x85
LOGICATH™ <i>AgTive</i> Set 4 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 70cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x30x85

4 LUMEN LOGICATH™ *AgTive* Kit 8.5F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 4 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x16x85-E
LOGICATH™ <i>AgTive</i> Kit 4 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x20x85-E
LOGICATH™ <i>AgTive</i> Kit 4 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x25x85-E
LOGICATH™ <i>AgTive</i> Kit 4 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 70cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA434x30x85-E

5 LUMEN LOGICATH™ *AgTive* 8.5F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 5 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x20x85
LOGICATH™ <i>AgTive</i> Set 5 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x25x85
LOGICATH™ <i>AgTive</i> Set 5 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 70cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x30x85

5 LUMEN LOGICATH™ *AgTive* Kit 8.5F antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 5 Lumen 8.5F 16cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x16x85-E
LOGICATH™ <i>AgTive</i> Kit 5 Lumen 8.5F 20cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x20x85-E
LOGICATH™ <i>AgTive</i> Kit 5 Lumen 8.5F 25cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x25x85-E
LOGICATH™ <i>AgTive</i> Kit 5 Lumen 8.5F 30cm	2.77mm	16G/18G/ 18G/18G/18G	18G [1.27mm] 7cm	.035" [.89mm] 60cm J-tip 3mm	9.5F [3.0mm] 8cm	10	MXA435x30x85-E

LOGICATH™ *AgTive* Paediatric Catheters

1 LUMEN LOGICATH™ *AgTive* Antimicrobial

Description	I.D / O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 1 Lumen 20G 10cm	0.6x0.9mm		20G (0.89mm) 4cm	.018" (.46mm) 60cm	4.5F (1.5mm) 6cm	10	MXA431x10x20V
LOGICATH™ <i>AgTive</i> Kit 20G 1 Lumen 20cm	0.6x0.9mm		20G (0.89mm) 4cm			10	MXA431x20x20VS-E

2 LUMEN LOGICATH™ *AgTive* Kit 4F Antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Kit 4F 2 Lumen 8cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA432x08x40-E
LOGICATH™ <i>AgTive</i> Kit 4F 2 Lumen 12cm	1.35mm	18G/22G	20G (0.89mm) 4cm	.018" (.46mm) 40cm J tip 1.5mm	5.5F (1.8mm) 6cm	10	MXA432x12x40-E

2 LUMEN LOGICATH™ *AgTive* Kit 5.5F Antimicrobial

Description	O.D	Lumen	Introducer	Guidewire	Dilator	Case Qty	Product Codes
LOGICATH™ <i>AgTive</i> Set 5.5F2 Lumen 10cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA432x10x55
LOGICATH™ <i>AgTive</i> Set 5.5F 2 Lumen 16cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA432x16x55
LOGICATH™ <i>AgTive</i> Set 5.5F 2 Lumen 20cm	1.83mm	18G/18G	20G (0.89mm) 4cm	.025" (.64mm) 60cm J-tip 3mm	6.5F (2.1mm) 6cm	10	MXA432x20x55

Accessories

LOGICATH™ and LOGICATH™ *AgTive* Dilators

Description	Size and Length	Qty	Product Codes
LOGICATH™ Dilator	4.5F / 1.6mm, 6cm	25	MXA999x600x45
LOGICATH™ Dilator	5.5F / 1.8mm, 6cm	25	MXA999x600x55
LOGICATH™ Dilator	6.5F / 2.1mm, 6cm	25	MXA999x600x65
LOGICATH™ Dilator	7.5F / 2.4mm, 8cm	25	MXA999x800x75
LOGICATH™ Dilator	8.5F / 2.7mm, 8cm	25	MXA999x800x85
LOGICATH™ Dilator	9.5F / 3.0mm, 8cm	25	MXA999x800x95
LOGICATH™ Dilator	12F / 4.0mm, 8cm	25	MXA999x800x12

LOGICATH™ and LOGICATH™ *AgTive* Introducer Needle

Description	Size and Length	Qty	Product Codes
Introducer Needle	18G / 1.27mm, 7cm	25	MXA999x7x18
Introducer Needle	18G / 1.27mm, 5cm	25	MXA999x5x18

LOGICATH™ and LOGICATH™ *AgTive* Y-Connector

Description	Qty	Product Codes
Y-connector	50	MXA999-2020

LOGICATH™ and LOGICATH™ *AgTive* Fixation Devices

Description	Qty	Product Codes
CVC Fixation Device 18G and 4F catheter	10	MXA999x40x00
CVC Fixation Device 16G and 5.5F catheter	10	MXA999x55x00
CVC Fixation Device 14G catheter	10	MXA999x14x00
CVC Fixation Device 7F catheter	10	MXA999x70x00
CVC Fixation Device 8.5F catheter	10	MXA999x85x00

LOGICATH™ and LOGICATH™ *AgTive* Guidewires

Description	Size and Length	Qty	Product Codes
Guidewire .018"	0.46mm, 40cm straight	20	MXA999x40x18
Guidewire .018"	0.46mm, 60cm straight	20	MXA999x60x18
Guidewire .025"	0.64mm, 60cm J-tip 3mm	20	MXA999x60x25
Guidewire .025"	0.64mm, 70cm J-tip 3mm	20	MXA999x70x25
Guidewire .035"	0.89mm, 60cm J-tip 3mm	20	MXA999x60x35
Guidewire .035"	0.89mm, 70cm J-tip 3mm	20	MXA999x70x35

LOGICATH™/LOGICATH™ *AgTive* Catheter Specifications

1 LUMEN

Gauge (G) Distal	Length (cm) Distal	Flow Rate (ml/hour) Distal	Priming Volume (ml)	Product Codes
14G	16	7460	0.54	MXA231X16X14V
14G	20	6870	0.64	MXA231X20X14V
14G	20	7850	0.41	MXA231X20X14
16G	16	4480	0.45	MXA231X16X16V
16G	20	3820	0.49	MXA231X20X16V
16G	30	2960	0.59	MXA231X30X16V
16G	20	4250	0.29	MXA231X20X16
18G	16	1760	0.37	MXA231X16X18V
18G	20	1510	0.38	MXA231X20X18V
18G	20	1530	0.21	MXA231X20X18
20G	16	560	0.33	MXA231X16X20V
20G	20	500	0.36	MXA231X20X20V

2 LUMEN

Gauge (G) Distal	Proximal	Length (cm)	French (Fr)	Flow Rate (ml/hour)		Priming Volume (ml)		Product Codes
				Distal	Proximal	Distal	Proximal	
12G	12G	16	12	16720	18540	1.62	1.45	MXA232X16X12
12G	12G	20	12	15870	16950	1.69	1.62	MXA232X20X12
12G	12G	25	12	15440	16950	1.97	1.77	MXA232X25X12
12G	12G	16	12	16440	16470	1.55	1.43	MXA232X16X12S
12G	12G	20	12	16080	17760	1.68	1.57	MXA232X20X12S
14G	18G	16	7	5080	2380	0.63	0.70	MXA232X16X70
14G	18G	20	7	4710	1930	0.66	0.69	MXA232X20X70
14G	18G	30	7	3950	1370	0.81	0.77	MXA232X30X70
14G	14G	20	8.5	5160	3800	0.70	0.69	MXA232X20X85
14G	14G	25	8.5	4730	3140	0.74	0.77	MXA232X25X85
18G	22G	8	4	1020	400	0.36	0.43	MXA232X08X40
18G	22G	10	4	850	330	0.36	0.43	MXA232X10X40
18G	22G	12	4	790	260	0.36	0.43	MXA232X12X40
18G	22G	16	4	615	190	0.37	0.43	MXA232X16X40
18G	22G	20	4	530	160	0.38	0.44	MXA232X20X40
18G	18G	8	5.5	2370	1500	0.31	0.38	MXA232X08X55
18G	18G	10	5.5	2200	1400	0.32	0.39	MXA232X10X55
18G	18G	16	5.5	1750	960	0.34	0.43	MXA232X16X55
18G	18G	20	5.5	1570	740	0.38	0.43	MXA232X20X55

3 LUMEN

Gauge (G)			Length (cm)	French (Fr)	Flow Rate (ml/hour)			Priming Volume (ml)			Product Codes
Distal	Proximal	Middle			Distal	Proximal	Middle	Distal	Proximal	Middle	
14G	18G	18G	20	8.5	5360	1310	1250	0.69	0.65	0.59	MXA233X20X85
14G	18G	18G	25	8.5	5520	1370	1320	0.91	0.65	0.58	MXA233X25X85
16G	18G	18G	16	7	3650	1590	1440	0.48	0.45	0.43	MXA233X16X70
16G	18G	18G	20	7	3270	1350	1260	0.54	0.48	0.43	MXA233X20X70
16G	18G	18G	30	7	2600	910	850	0.62	0.51	0.45	MXA233X30X70
16G	12G	12G	16	12	4190	13110	12610	0.58	1.26	1.28	MXA233X16X12
16G	12G	12G	20	12	3780	11360	10970	0.64	1.33	1.46	MXA233X20X12
16G	12G	12G	16	12	4540	13600	12995	0.54	1.25	1.31	MXA233X16X12S
16G	12G	12G	20	12	4180	13210	12680	0.63	1.34	1.41	MXA233X20X12S
18G	22G	22G	10	5.5	1980	380	350	0.36	0.38	0.33	MXA233X10X55
18G	22G	22G	16	5.5	1640	240	230	0.42	0.38	0.33	MXA233X16X55
20G	24G	24G	8	4	1020	170	165	0.36	0.39	0.34	MXA233X08X40
20G	24G	24G	10	4	980	145	120	0.37	0.40	0.35	MXA233X10X40
20G	24G	24G	12	4	850	110	100	0.37	0.40	0.35	MXA233X12X40
20G	24G	24G	16	4	730	85	80	0.39	0.37	0.36	MXA233X16X40
20G	24G	24G	20	4	650	65	60	0.37	0.39	0.35	MXA233X20X40

4 LUMEN

Gauge (G)				Length (cm)	French (Fr)	Flow Rate (ml/hour)				Priming Volume (ml)				Product Codes
Distal	Proximal	Middle	Middle Distal			Distal	Proximal	Middle	Middle Distal	Distal	Proximal	Middle	Middle Distal	
16G	18G	18G	18G	16	8.5	4030	1840	1680	1580	0.50	0.45	0.44	0.41	MXA234X16X85
16G	18G	18G	18G	20	8.5	3590	1440	1300	1160	0.51	0.46	0.43	0.45	MXA234X20X85
16G	18G	18G	18G	25	8.5	3080	1170	1100	1010	0.56	0.54	0.49	0.45	MXA234X25X85
16G	18G	18G	18G	30	8.5	3130	920	830	800	0.58	0.57	0.54	0.55	MXA234X30X85

5 LUMEN

Gauge (G)					Length (cm)	French (Fr)	Flow Rate (ml/hour)					Priming Volume (ml)					Product Codes
Distal	Proximal	Middle	Middle Distal	Middle Proximal			Distal	Proximal	Middle	Middle Distal	Middle Proximal	Distal	Proximal	Middle	Middle Distal	Middle Proximal	
16G	18G	18G	18G	18G	16	8.5	4030	2080	1640	1560	1800	0.45	0.46	0.41	0.38	0.45	MXA235X16X85
16G	18G	18G	18G	18G	20	8.5	3390	1440	1180	1080	1280	0.50	0.47	0.48	0.50	0.49	MXA235X20X85
16G	18G	18G	18G	18G	25	8.5	3010	1120	950	890	1010	0.59	0.48	0.48	0.50	0.47	MXA235X25X85
16G	18G	18G	18G	18G	30	8.5	2770	960	830	800	880	0.7	0.56	0.55	0.58	0.50	MXA235X30X85



Single lumen standard

Smith Medical's Implantable Ports are available in a wide range of types and sizes to meet the needs of every therapy and every patient size. From titanium to plastic and from silicone to polyurethane, we have a port for every need.

PORT-A-CATH® Implantable Access Systems

- The gold standard in ports.

PORT-A-CATH® II Implantable Access Systems

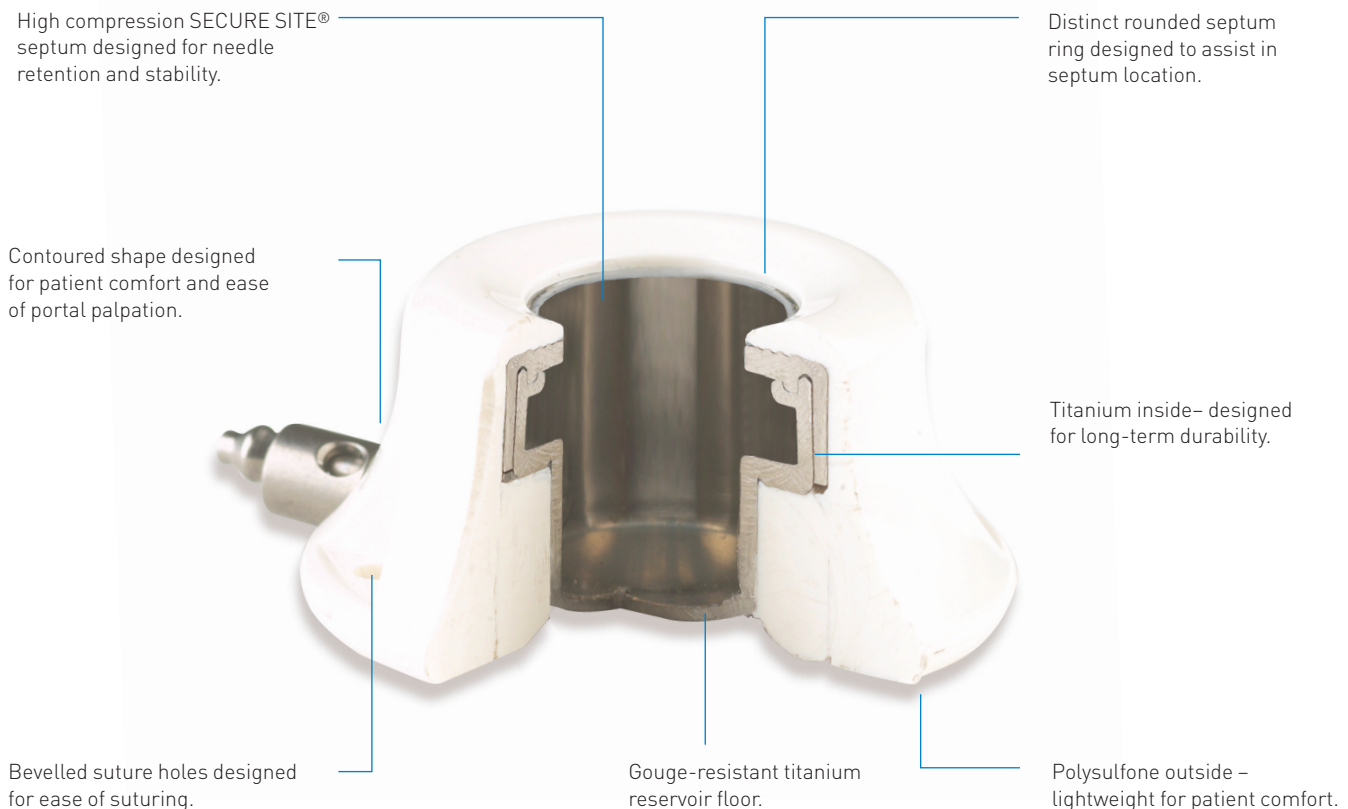
- The power of two materials in one.

ProPort® Implantable Access Systems

- Cost effective and high quality.

P.A.S. PORT® Implantable Peripheral Access Systems

- The first system designed for arm placement.



With Smiths Medical ports your choice continues with our range of

- Ports specifically for venous, arterial, intraspinal, epidural, peritoneal and peripheral placement.
- Catheter materials in Silicone or PolyFlow® Polyurethane.
- Single or dual lumen.
- Titanium, polysulfone or plastic.
- CATH-SHIELD® for easy and reliable catheter connections.
- Preassembled and unassembled Kits and Trays.

Smiths Medical portal systems and components are latex free and PVC free. Portals are MRI compatible up to 1.5 tesla.¹

PolyFlow® Polyurethane features a smaller outer diameter than silicone catheters but the same internal diameter. High tensile and shear strength designed to withstand high pressure. PolyFlow® is firm at room temperature for easier advancement into the vein with silicone like softness at body temperature.

Kit Content:

Kits include portal, catheter, PORT-A-CATH® straight needle, blunt needle (except preassembled systems) and vein pick.

Tray Content:

Trays include portal, catheter, GRIPPER PLUS® Safety Needle, vein pick, stainless steel tunneling tool, PORT-A-CATH® straight needle, blunt needle, 18G extra thin wall introducer needle, J tip guidewire, vessel dilator/sheath introducer assembly, 90 degree PORT-A-CATH® needle and 2 syringes and POINT-LOK®.

References

1. Shedlock, FG. MR Imaging and Implantable Vascular Access Devices: A practical Review, Monograph, published by SIMS Deltec, Inc. 1994.

Standard System Single Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Titanium	28mm	14.6mm	16g	11.4mm	0.5ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4024-24 Tray: 21-4025-24
Titanium	28mm	14.6mm	16g	11.4mm	0.5ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4022-24 Tray: 21-4023-24
Titanium	28mm	14.6mm	16g	11.4mm	0.5ml	Silicone	2.8mm	1.0mm	76cm	9F	0.6ml	Kit: 21-4008-24 Tray: 21-4009-24
Titanium	25.4mm	13.5mm	16g	11.4mm	0.5ml	Silicone	2.8mm	1.0mm	76cm	9F	0.6ml	Kit: 21-4000-24 Tray: 21-4003-24

Standard System Single Lumen Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Titanium	28mm	13.5mm	16g	11.4mm	1.1ml per system	Silicone	2.8mm	1.0mm	76cm	9F	1.1ml per 1.1 system	Kit: 21-4010-24 Tray: 21-4004-24

Standard System Single Lumen Low Profile™

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Titanium	25mm	11.5mm	9.5g	9.5mm	0.3ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4036-24 Tray: 21-4037-24
Titanium	25mm	11.5mm	9.5g	9.5mm	0.3ml	Silicone	2.8mm	1.0mm	76cm	9F	0.6ml	Kit: 21-4034-24 Tray: 21-4035-24

Standard System Double Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Titanium	46.7mm long 26.5mm wide	14.4mm	34g	11.4mm each	0.5ml per reservoir	Silicone	3.4mm per lumen	1.1mm per lumen	76cm per lumen	11F	0.7ml per lumen	Kit: 21-8010-24 Tray: 21-8011-24



● Single lumen low profile



● Single lumen standard



● Dual lumen standard

PORT-A-CATH®

The titanium construction provides long term durability and gouge resistance, withstanding repeated needle access. The system's titanium housing features a contoured shape for increased patient comfort and ease of portal palpation. The distinct rounded septum ring is designed to assist in septum location and the high compression SECURE SITE® septum allows greater needle retention and stability.

PORT-A-CATH® II Single Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	30.5mm	14.7mm	10g	11.4mm	0.5ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4052-24 Tray: 21-4053-24
Polysulfone Titanium	30.5mm	14.7mm	10g	11.4mm	0.5ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4054-24 Tray: 21-4055-24
Polysulfone Titanium	30.5mm	14.7mm	10g	11.4mm	0.5ml	Silicone	2.8mm	1.0mm	76cm	9F	0.6ml	Kit: 21-4050-24 Tray: 21-4051-24

PORT-A-CATH® II Single Lumen Low Profile™

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	25mm	11.5mm	4.8g	9.5mm	0.3ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4082-24 Tray: 21-4083-24
Polysulfone Titanium	25mm	11.5mm	4.8g	9.5mm	0.3ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4070-24 Tray: 21-4071-24

PORT-A-CATH® II Single Lumen Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	30.5mm	14.7mm	10g	11.4mm	0.7ml or 1.1ml system	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.5ml 1.1ml system	Tray: 21-4063-24
Polysulfone Titanium	30.5mm	14.7mm	10g	11.4mm	0.5ml or 2.0ml system	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml 2.0ml system	Tray: 21-4065-24



● Single lumen low profile



● Single lumen standard

Patient Size Guide

●	Small Patients
●	Medium Patients
●	Large Patients

PORT-A-CATH® II

Discover the powerful combination of two materials, polysulfone and titanium, together in one portal.

All the reliability and quality of PORT-A-CATH® in a lighter weight portal design. By engineering the portal with polysulfone on the outside and titanium on the inside we have created an access system designed to meet clinical needs for lighter weight and long term durability.

PORT-A-CATH® II

PORT-A-CATH® II Single Lumen Low Profile™ Preamsembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	25mm	11.5mm	4.8g	9.5mm	0.3ml or 1.0ml system	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml or 1.0ml system	Kit: 21-4084-24 Tray: 21-4085-24
Polysulfone Titanium	25mm	11.5mm	4.8g	9.5mm	0.3ml or 1.8ml system	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	0.7ml or 1.5ml system	Tray: 21-4073-24

PORT-A-CATH® II Double Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	50mm long x30mm wide	16mm	24g	11.4mm each septum	0.5ml per reservoir	Silicone	3.4mm per lumen	1.1mm per lumen	76cm	11F	0.7ml per lumen	Kit: 21-8050-24 Tray: 21-8052-24

PORT-A-CATH® II Double Lumen Preamsembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	50mm long x30mm wide	16mm	24g	11.4mm each septum	0.5ml	Silicone per reservoir 2.4ml system	3.4mm	1.1mm per lumen	76cm per lumen	11F	0.7ml per lumen 2.4ml system	Tray: 21-8053-24

PORT-A-CATH® II Double Lumen Low Profile™

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Polysulfone Titanium	38.7mm long x 23.5mm wide	11mm	11g	9.5mm	0.3ml per lumen	PolyFlow® Polyurethane	2.2mm per lumen	1.0mm per lumen	76cm	7F	0.6ml per lumen	Kit: 21-8065-24 Tray: 21-8066-24
Polysulfone Titanium	38.7mm long x 23.5mm wide	11mm	11g	9.5mm	0.3ml per lumen	PolyFlow® Polyurethane	3.2mm per lumen	1.4mm per lumen	76cm	10F	1.2ml per lumen	Kit: 21-8067-24 Tray: 21-8068-24

PORT-A-CATH® II systems are also available for Fluoro-Free® placement with the CATH-FINDER® catheter tracking system



● ● Dual lumen low profile



● ● Dual lumen standard

Patient Size Guide

●	Small Patients
●	Medium Patients
●	Large Patients

Standard System Single Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	30.5mm	14.0	9g	12.7mm	0.85ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4152-24 Tray: 21-4153-24
Plastic	30.5mm	14.0	9g	12.7mm	0.85ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4154-24 Tray: 21-4155-24

Standard System Single Lumen Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	30.5mm	14.0	9g	12.7mm	0.92ml system	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml 0.9ml system	Kit: 21-4162-24 Tray: 21-4163-24
Plastic	30.5mm	14.0	9g	12.7mm	2.35ml system	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml 2.35ml system	Kit: 21-4164-24 Tray: 21-4165-24

Standard System Single Lumen Low Profile™

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4182-24 Tray: 21-4183-24
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4170-24 Tray: 21-4171-24

Standard System Single Lumen Low Profile™ Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4184-24 Tray: 21-4185-24
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml	PolyFlow® Polyurethane	2.6mm	1.6mm	76cm	8.5F	1.5ml	Kit: 21-4172-24 Tray: 21-4173-24

ProPort®

ProPort® is our range of lightweight plastic ports. Like the PORT-A-CATH®, PORT-A-CATH® II, P.A.S. PORT® T2 ranges ProPort® also has a SECURE SITE® septum. It also has a unique SlideLock™ Connector which is designed to provide easy and secure port to catheter locking.

The low profile ProPort® option, with its contour shape provides a more discreet alternative helping to maximise comfort.

Standard System Single Lumen

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	30.5mm	14.0mm	9g	12.7mm	0.85ml	Silicone	2.8mm	1.0mm	76cm	9F	0.7ml	Kit: 21-4150-24 Tray: 21-4151-24

Standard System Single Lumen Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	30.5mm	14.0mm	9g	12.7mm	0.85ml	Silicone	2.8mm	1.0mm	76cm	9F	0.7ml or 1.55ml system	Kit: 21-4160-24 Tray: 21-4161-24

Standard System Single Lumen Low Profile™

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml	Silicone	2.8mm	1.0mm	76cm	9F	0.7ml	Kit: 21-4186-24 Tray: 21-4187-24

Standard System Single Lumen Low Profile™ Preassembled

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic	25mm	10.0mm	4g	10.5mm	0.45ml or 1.15ml system	Silicone	2.8mm	1.0mm	76cm	9F	0.7ml or 1.15ml system	Kit: 21-4188-24 Tray: 21-4189-24



● Single lumen low profile



● ● Single lumen standard

Patient Size Guide

●	Small Patients
●	Medium Patients
●	Large Patients

Standard System Single Lumen P.A.S. PORT® T2

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Titanium	24.5mm long x 18.2mm wide	11.5mm	8.3g	9.5mm	0.3ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4572-24 Tray: 21-4573-24

Standard System Single Lumen P.A.S.PORT® Elite

Material	Base	Height	Weight	Septum Volume	Priming Volume	Catheter Material	O.D.	I.D.	Length	Introducer Size	Priming Volume	Product Codes
Plastic Titanium	24.9mm long x 17.1mm wide	9.8mm	2.8g	9.7mm	0.3ml	PolyFlow® Polyurethane	1.9mm	1.0mm	76cm	6F	0.7ml	Kit: 21-4590-24 Tray: 21-4591-24

P.A.S.PORT® systems are also available for Fluoro-Free® placement with the CATH-FINDER catheter tracking system



● P.A.S.PORT® Elite



●● P.A.S.PORT® T2

Accessories

Ports Introducer Sets

Size	Qty	Product Codes
6F	5 per box	21-2320-24
8.5F	5 per box	21-2470-24
9F	5 per box	21-2340-24
11F	5 per box	21-2386-24

Sets include 18G thin wall introducer needle, J-tip guidewire, vessel dilator sheaths introducer assembly, 90 degree PORT-A-CATH® needle, and 2 syringes.

Ports Subcutaneous Tunneling Device

0.D. x 24cm length, solid malleable stainless steel, disposable

Size	Qty	Product Codes
3.2mm	5 per box	221-0125-24

P.A.S PORT®

For those of your patients requiring peripheral port placement, Smiths Medical has designed the P.A.S. PORT® range. P.A.S. PORT® T2 is a titanium port suitable for upper or lower arm placement. It also has a SECURE SITE® septum designed for needle retention and stability. A lighter weight, low profile option is P.A.S. PORT® Elite, which is made of an acetal (plastic) housing exterior and a titanium base. It has a unique WIDESITE® septum designed for a large needle puncture area.

GRIPPER® AND GRIPPER PLUS®

GRIPPER® Needles

Gauge	Length Inches	Length	With Y site	Without Y site	Qty
22G	1 ¼	32mm	21-2941-24	21-2715-24	12 per box
22G	1	25mm	21-2940-24	21-2714-24	12 per box
22G	¾	19mm	21-2939-24	21-2733-24	12 per box
22G	½	16mm	21-2938-24	21-2737-24	12 per box
20G	1 ¼	32mm	21-2949-24	21-2718-24	12 per box
20G	1	25mm	21-2948-24	21-2717-24	12 per box
20G	¾	19mm	21-2947-24	21-2734-24	12 per box
20G	½	16mm	21-2946-24	21-2736-24	12 per box
19G	1 ¼	32mm	21-2957-24	21-2721-24	12 per box
19G	1	25mm	21-2956-24	21-2720-24	12 per box
19G	¾	19mm	21-2955-24	21-2735-24	12 per box

GRIPPER PLUS® Safety Needles

Gauge	Length Inches	Length	With Y site	Without Y site	Qty
22G	1 ¼	32mm	21-2863-24	21-2761-24	12 per box
22G	1	25mm	21-2862-24	21-2760-24	12 per box
22G	¾	19mm	21-2861-24	21-2766-24	12 per box
22G	½	16mm	21-2860-24	21-2770-24	12 per box
20G	1 ¼	32mm	21-2867-24	21-2763-24	12 per box
20G	1	25mm	21-2866-24	21-2762-24	12 per box
20G	¾	19mm	21-2865-24	21-2767-24	12 per box
20G	½	16mm	21-2864-24	21-2769-24	12 per box
19G	1 ¼	32mm	21-2870-24	21-2765-24	12 per box
19G	1	25mm	21-2869-24	21-2764-24	12 per box
19G	¾	19mm	21-2868-24	21-2768-24	12 per box



GRIPPER PLUS®

GRIPPER®

GRIPPER® needles designed to provide more confident needle placement for implanted access systems.

GRIPPER® provides

- Natural rubber latex free to reduce potential allergic reactions.
- Colour coded clamps for needle gauge identification.
- Removable contoured grip for controlled needle placement.
- Cushioned needle platform for greater patient comfort, needle stabilisation and access site protection.
- Variety of gauges and lengths to accommodate most portals.
- Available with or without y-site.

GRIPPER PLUS® (Safety)

Effective needlestick protection is only part of the GRIPPER PLUS® safety needle story, our exciting new needle was created with your input, and the new GRIPPER PLUS® Safety Needle delivers on all counts.

GRIPPER PLUS® provides

- Audible and visible confirmation of safety mechanism.
- Minimal change to current technique.
- Kink- resistant TOTM tubing available with or without y-site.
- Colour coded clamp for ease of needle gauge identification.
- Fully threaded Luer lock connectors fits all standard accessories.
- Removable slit septum cap offers needleless access flexibility.
- Cushioned needle platform for greater patient comfort.
- Non-coring, non siliconised needle for secure needle retention.

Plastic Huber Needles straight

Gauge	Length Inches	Length	With Y site	Qty
24G	1	25mm	21-2003-24	12 per box
22G	1½	38mm	21-2007-24	12 per box
22G	1	25mm	21-2005-24	12 per box
20G	1½	38mm	21-2015-24	12 per box
20G	1	25mm	21-2013-24	12 per box
19G	1	25mm	21-2021-24	12 per box

Plastic Huber Needles 90° Bend

Gauge	Length Inches	Length	With Y site	Qty
22G	1 1/2	38mm	21-2008-24	12 per box
22G	1	25mm	21-2006-24	12 per box
22G	1/2	13mm	21-2316-24	12 per box
20G	1 1/2	38mm	21-2016-24	12 per box
20G	1	25mm	21-2014-24	12 per box
20G	3/4	19mm	21-2287-24	12 per box
20G	1/2	13mm	21-2317-24	12 per box



Traditional Huber Needles

- Available with plastic hub.
- Straight or 90 degree bent.
- Non coring, non siliconised needles.