

# Certofix<sup>®</sup> Prime Sets

High-level CVC for medical therapy



# Certofix®

Certofix® Prime Sets from B. Braun combine extraordinary manufacturing quality with user appreciated individual components. Sharing Expertise with our customers enabled us to develop each component according to the highest standard in the medical field.

**More certainty, more safety, more success**

## Kink-proof guide wire

- Extreme flexible and resilient guide wire made from Nitinol
- Stiffness of guide wire is sufficient for easy advancing through venous obstructions



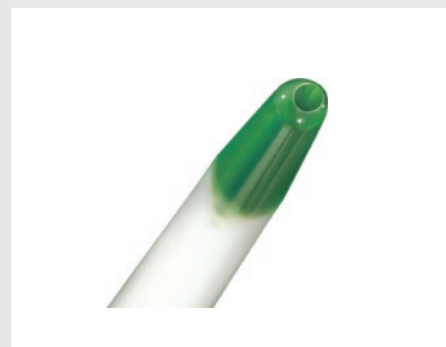
## Valve needle

- Easy cannulation of the vein like with standard Seldinger cannula
- Quick, blood-free introduction of the guide wire via the second hub
- Small geometry for easy handling



## Safsite®

- Air-tight valve automatically shuts off entry of air if infusion line is disconnected
- Fool-proof prevention of air embolism
- Allows infusion and blood withdrawal without flow restriction



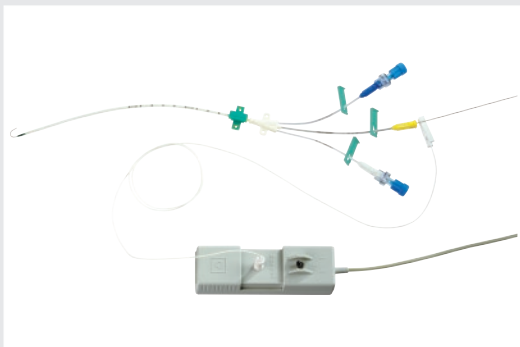
## Soft tip

- Special tip material more pliant and softer than the catheter body
- Best protection of the intima in case of contact with the vessel wall
- Optimal surface with exceptional gliding features

# ... the ultimate tools for safe catheter placement

## ECG-lead technique

- Enables immediate corrective measures, if the initial positioning of the catheter tip was too deep
- Helps to prevent subsequent complications, particularly the risk of pericardial perforation



## ECG-lead cable in combination with Certodyn® Universal Adapter

- Single-use cable with crocodile clamp and banana plug connects the guide wire with electronic switch box Certodyn® Adapter
- Switch box offers recording of standard ECG signal and intra-atrial ECG (ECG signal transmitted via the guide wire)  
Intra-atrial ECG sees prominent change of P-wave (see position 1 in ECG record above) at the time when guide wire and catheter pass the atrial node. The P-wave returns to normal size (see position 2) when guide wire and catheter are withdrawn from the atrium.

See CVC-partner No. 2 brochure (ref. no. 6042589) for more details of the ECG-lead technique.

## Several choices for any application

B. Braun offers one of the biggest ranges of premium central venous catheter sets in the market. From single lumen catheters for short term intervention to quintuple lumen catheters on the Critical Care ward, B. Braun is the first choice. Different catheter geometries enable the physician to infuse drugs and solutions at any desired flow rate.



### User benefits

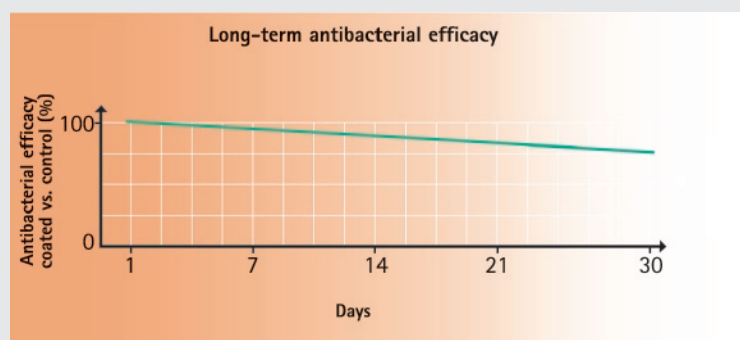
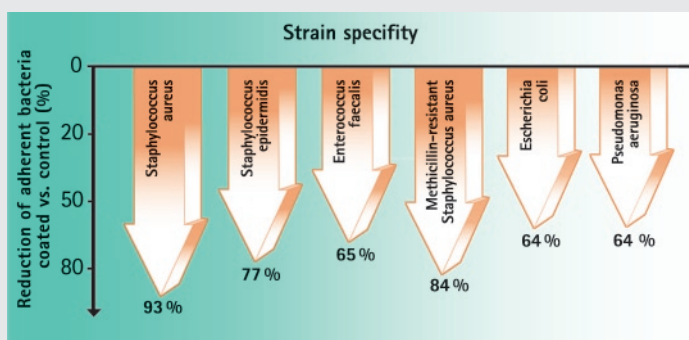
- Safe and certain positioning
  - Kink-proof guide wire
  - Real-time ECG-lead position verification
- CVC insertion – the safety approach
  - Safsite® valves
  - Clear connection lines
  - Kink-resistant catheter material
  - Atraumatic Soft Tip

### Product Specifications

Radio-opaque polyurethane catheter with soft tip, length markings, junction hub for stitch fixation and fully transparent extension lines with color-coded hub and white slide clamp. Components: Kink-proof guide wire with J-tip and straight tip on dispenser, movable fixation wing with clamp, introducer needle (either Seldinger or valve needle), scalpel, dilator, ECG-lead cable, Safsite® valve, 5 ml Omnifix® lock syringe

## Anti-pathogenic Certofix® catheter

A patented combination of an anti-microbial agent (Polyhexanide) and a-thrombogenic chemical groups (Polyethylene glycol and Polymethacrylate) makes the surface of Certofix® protect catheters unique. The adhesion of bacteria which is often the starting point of a catheter-infection is effectively prevented by Polyhexanide. A high concentration of hydrophilic groups lowers the risk of thrombus aggregation on the catheter surface.



### Efficacy spectrum

- Gram-positive bacteria (St. aureus, St. epidermidis)
- MRSA (methicillin-resistant Staphylococcus aureus)
- Gram-negative bacteria, e.g. Pseudomonas aeruginosa, Escherichia coli

### Long-term protection

Even after weeks, the Certofix® protect catheter material exhibits an effective level of protection against catheter colonization. Within 30 days, Certofix® protect's loss of efficacy is less than 20%.

### User benefits

- No active agents are released thus avoiding adverse systemic reactions
- Hydrophilic catheter surface results in proven reduction in thrombosis formation
- The same superior flexibility like other Certofix® catheters
- Total catheter coverage - from tip to hub

### Product Specifications

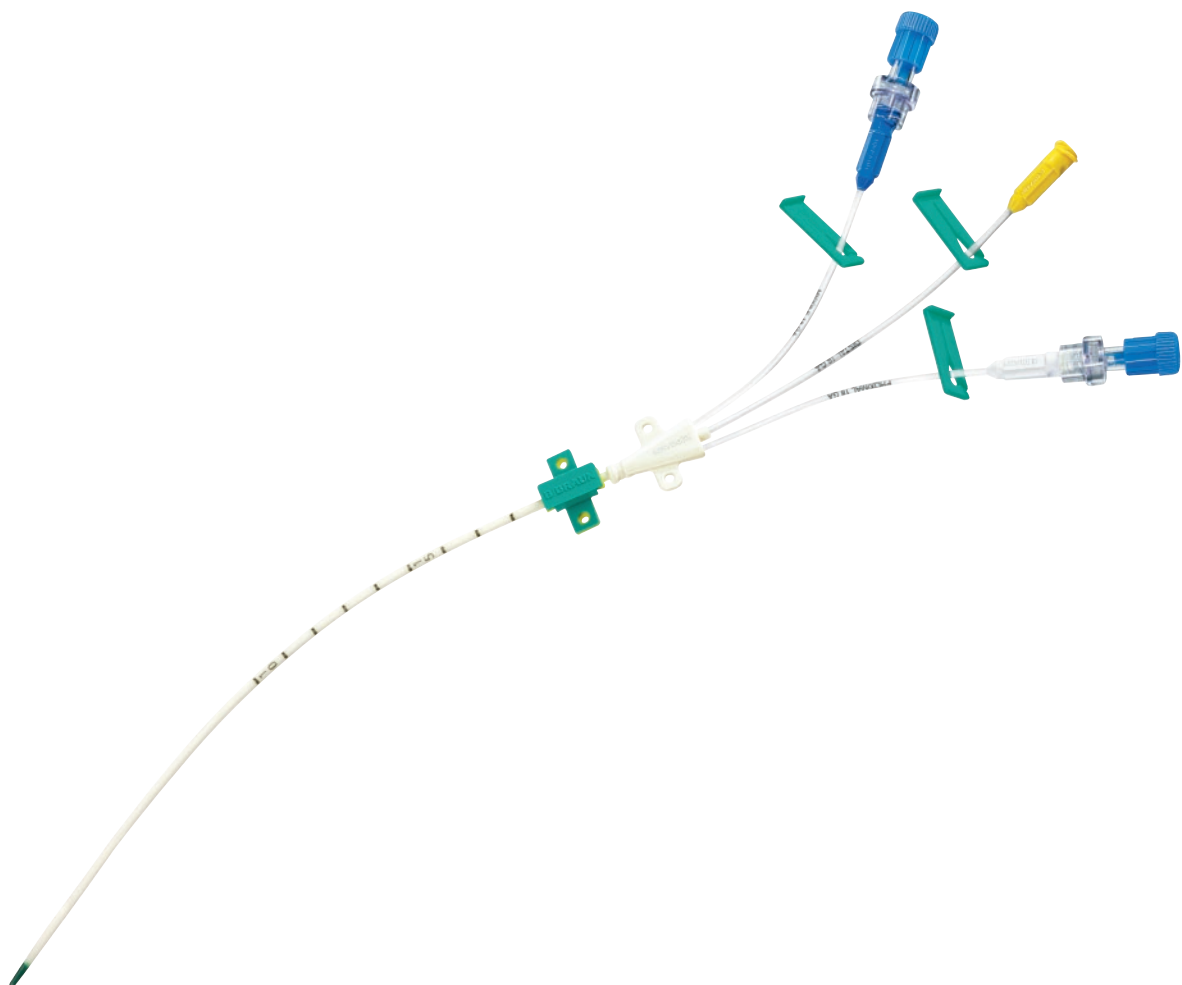
Radio-opaque polyurethane catheter with anti-bacterial and a-thrombogenic surface modification inside the lumen and outside; catheter with soft tip, length markings, junction hub for stitch fixation and fully transparent extension lines with color-coded hub and green slide clamp. Components: see page 4 (Certofix® Product Specifications) but with valve introducer needle

# Certofix® protect portfolio

Product Type	Puncture needle	Catheter diameter in F	Catheter length in cm	Lumen in G D: distal, M: middle, P: proximal	Article No.
Mono V 320 (1)	V, G18x2 7/9"	5	20	16	4160266P
Mono V 330 (1)	V, G18x2 7/9"	5	30	16	4160290P
Mono V 420 (1)	V, G18x2 7/9"	6	20	14	4160320P
Mono V 430 (1)	V, G18x2 7/9"	6	30	14	4160789P
Duo V 715	V, G18x2 7/9"	7	15	D16/P16	4166159P
Duo V 720	V, G18x2 7/9"	7	20	D16/P16	4161211P
Duo V 730	V, G18x2 7/9"	7	30	D16/P16	4161319P
Duo HF V 720	V, G18x2 7/9"	7	20	D14/P18	4168534P
Trio V 715	V, G18x2 7/9"	7	15	D16/M18/P18	4162153P
Trio V 720	V, G18x2 7/9"	7	20	D16/M18/P18	4163214P
Trio V 730	V, G18x2 7/9"	7	30	D16/M18/P18	4163311P
Trio HF V 1220	V, G18x2 7/9"	12	20	D16/M12/P12	4160622P
Quattro V 815	V, G18x2 7/9"	8	15	D16/M <sub>1</sub> 18/M <sub>2</sub> 18/P14	4167767P
Quattro V 820	V, G18x2 7/9"	8	20	D16/M <sub>1</sub> 18/M <sub>2</sub> 18/P14	4167775P
Quattro V 830	V, G18x2 7/9"	8	30	D16/M <sub>1</sub> 18/M <sub>2</sub> 18/P14	4167783P
Quinto V 1220	V, G18x2 7/9"	12	20	D16/M <sub>1</sub> 18/M <sub>2</sub> 18//M <sub>3</sub> 18/P12	4166868P

V: Valve needle; HF: High flow

1: without scalpel



# Certofix® portfolio

Product Type (1)	Puncture needle	Catheter diameter	Catheter length in cm	Lumen in G D: distal; M: middle; P: proximal	Article No.
Mono V 215 (2, 4)	V, G20x2"	4 F, 1.4 mm	15	18	4160193
Mono S 215 (2, 4)	S, G20x2"	4 F, 1.4 mm	15	18	4160185
Mono V 220 (2, 4)	V, G20x2"	4 F, 1.4 mm	20	18	4160215
Mono S 220 (2, 4)	S, G20x2"	4 F, 1.4 mm	20	18	4160207
Mono V 315 (2, 3)	V, G18x2 7/9"	5 F, 1.7 mm	15	16	4160231
Mono S 315 (2, 3, 4)	S, G18x2 7/9"	5 F, 1.7 mm	15	16	4160223
Mono V 320 (2)	V, G18x2 7/9"	5 F, 1.7 mm	20	16	4160266
Mono S 320 (2, 4)	S, G18x2 7/9"	5 F, 1.7 mm	20	16	4160258
Mono V 330 (2)	V, G18x2 7/9"	5 F, 1.7 mm	30	16	4160290
Mono S 330 (2, 4)	S, G18x2 7/9"	5 F, 1.7 mm	30	16	4160282
Mono V 415 (2, 3)	V, G18x2 7/9"	6 F, 2.1 mm	15	14	4160517
Mono S 415 (2, 3, 4)	S, G18x2 7/9"	6 F, 2.1 mm	15	14	4160509
Mono V 420 (2)	V, G18x2 7/9"	6 F, 2.1 mm	20	14	4160320
Mono S 420 (2, 4)	S, G18x2 7/9"	6 F, 2.1 mm	20	14	4160304
Mono V 430 (2)	V, G18x2 7/9"	6 F, 2.1 mm	30	14	4160789
Mono S 430 (2, 4)	S, G18x2 7/9"	6 F, 2.1 mm	30	14	4160762
Duo V 715	V, G18x2 7/9"	7 F, 2.4 mm	15	D16/P16	4166159
Duo S 715	S, G18x2 7/9"	7 F, 2.4 mm	15	D16/P16	4164158
Duo V 720	V, G18x2 7/9"	7 F, 2.4 mm	20	D16/P16	4161211
Duo S 720	S, G18x2 7/9"	7 F, 2.4 mm	20	D16/P16	4167385
Duo V 730	V, G18x2 7/9"	7 F, 2.4 mm	30	D16/P16	4161319
Duo S 730	S, G18x2 7/9"	7 F, 2.4 mm	30	D16/P16	4167394
Duo HF V 715	V, G18x2 7/9"	7 F, 2.4 mm	15	D14/P18	4168518
Duo HF S 715	S, G18x2 7/9"	7 F, 2.4 mm	15	D14/P18	4168502
Duo HF V 720	V, G18x2 7/9"	7 F, 2.4 mm	20	D14/P18	4168534
Duo HF S 720	S, G18x2 7/9"	7 F, 2.4 mm	20	D14/P18	4168528
Duo HF V 920	V, G18x2 7/9"	9 F, 3 mm	20	D13/P13	4167511
Duo HF V 1215	V, G18x2 7/9"	12 F, 4 mm	15	D11/P11	4167538
Duo HF V 1220	V, G18x2 7/9"	12 F, 4 mm	20	D11/P11	4167546
Trio V 715	V, G18x2 7/9"	7 F, 2.4 mm	15	D16/M18/P18	4162153
Trio S 715	S, G18x2 7/9"	7 F, 2.4 mm	15	D16/M18/P18	4161159
Trio V 720	V, G18x2 7/9"	7 F, 2.4 mm	20	D16/M18/P18	4163214
Trio S 720	S, G18x2 7/9"	7 F, 2.4 mm	20	D16/M18/P18	4167408
Trio V 730	V, G18x2 7/9"	7 F, 2.4 mm	30	D16/M18/P18	4163311
Trio S 730	S, G18x2 7/9"	7 F, 2.4 mm	30	D16/M18/P18	4163306
Trio HF V 1215	V, G18x2 7/9"	12 F, 4 mm	15	D16/M12/P12	4160614
Trio HF S 1215	S, G18x2 7/9"	12 F, 4 mm	15	D16/M12/P12	4160578
Trio HF V 1220	V, G18x2 7/9"	12 F, 4 mm	20	D16/M12/P12	4160622
Trio HF S 1220	S, G18x2 7/9"	12 F, 4 mm	20	D16/M12/P12	4160586
Quattro V 815	V, G18x2 7/9"	8 F, 2.8 mm	15	D16/M18//M18/P14	4167767
Quattro V 820	V, G18x2 7/9"	8 F, 2.8 mm	20	D16/M18//M18/P14	4167775
Quattro V 830	V, G18x2 7/9"	8 F, 2.8 mm	30	D16/M18//M18/P14	4167783

1: Certofix® Quinto not listed, please inquire; 2: Standard steel guide wire, without scalpel; 3: without moveable fixation wing; 4: without 5 ml Omnifix® lock syringe

V: Valve needle; S: Seldinger needle; HF: High flow



# Certofix® Paed

## Getting it right for the little ones

B. Braun's entire long-term CVC experience and groundbreaking expertise take effect in the pediatric range of central venous catheters. The highest quality and most modern features are sized to fit for the special requirements of infants and children - giving clinicians the certainty they seek in treating young patients.



### Kink-proof guide wire

- Extreme flexible and resilient guide wire made from Nitinol
- Guide wire stiff enough for easy advancing

### Teddy Bear fixation

- Safe and easy catheter fixation without stitch
- Soft to the skin of babies and newborns
- Gentle removing possible

### Introducer guide for guide wire

- Improves threading of the J-tip of the guide wire into the Seldinger needle
- Allows dispenser free advancing of the guide wire through the introducer

## User benefits

- Safe and certain positioning
  - Kink-proof guide wire
  - Real-time ECG-lead position verification
- Gentle to vulnerable patients
  - Teddy Bear catheter fixation makes stitching superfluous
  - Kink-proof guide wire avoids any damage of the sensitive intima

## Product Specifications

Radio-opaque polyurethane catheter with soft tip, length markings, junction hub for stitch fixation and fully transparent extension lines with color-coded hub and white slide clamp. Components: Kink-proof guide wire with J-tip and straight tip on dispenser, movable fixation wing with clamp, Seldinger introducer needle, scalpel, dilator, ECG-lead cable, Safsite® valve, 5 ml Omnifix® lock syringe



# ... the best level for children's safety

Product Type	Puncture needle	Catheter diameter in F	Catheter length in cm	Lumen in G	priming volume			flow rate			Article no.
					distal	middle	proximal	distal	middle	proximal	
Mono Paed S 110 (1)	S	1	10	22	0.15			17.0			4160177
Duo Paed S 408	S	4	8	D22/P22	0.25		0.24	24.6		17.5	4166906
Duo Paed S 413	S	4	13	D22/P22	0.26		0.25	17.4		15.0	4166922
Duo Paed S 420	S	4	20	D22/P22	0.28		0.27	11.0		11.5	4166949
Duo Paed S 508	S	5	8	D18/P20	0.30		0.29	24.5		32.5	4167112
Duo Paed S 513	S	5	13	D18/P20	0.32		0.29	15.5		24.5	4167139
Duo Paed S 520	S	5	20	D18/P20	0.34		0.30	11.5		19.0	4167155
Trio Paed S 508	S	5	8	D20/M22/P22	0.27	0.23	0.20	32.0	18.0	18.0	4167228
Trio Paed S 513	S	5	13	D20/M22/P22	0.28	0.24	0.24	25.5	8.5	8.0	4167244
Trio Paed S 520	S	5	20	D20/M22/P22	0.31	0.26	0.24	20.0	8.0	7.5	4167260

S: Seldinger needle

1: no extension line but Discifix® 3-way stopcock and 23 cm extension line, without dilator and syringe



## Accessories for ECG-lead technique

Product Type	Description	Article no.
Certodyn® Universal Adapter	Electronic switch box (for adults)	4150228
Certodyn® Universal Adapter Paed	Electronic switch box (for paediatrics)	4150724
Alphacard®	Syringe with electrode cable to universal adapter	41800401



