# HAEMODYNAMICS

## Products For Minimal-Invasive Diagnostics And Therapy

B BRAUN
SHARING EXPERTISE

# Interventional Vascular Diagnostics and Therapy

PRODUCTS FOR MINIMAL-INVASIVE DIAGNOSTICS AND THERAPY

## BALLOON FLOATATION CATHETERS FOR MEASUREMENT OF HEMODYNAMIC PRESSURE AND CARDIAC OUTPUT

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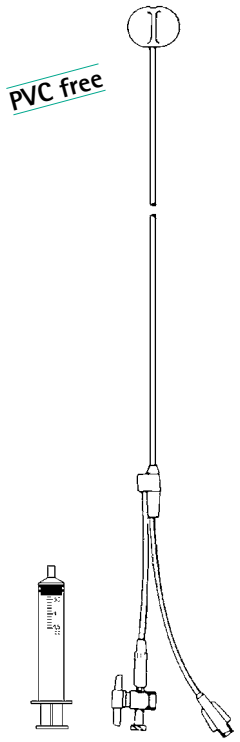
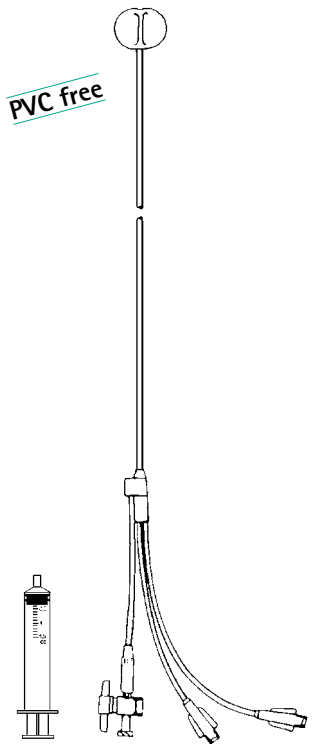
# Corodyn P1/P2

## BALLOON FLOATATION CATHETERS MADE OF POLYURETHANE (PUR)

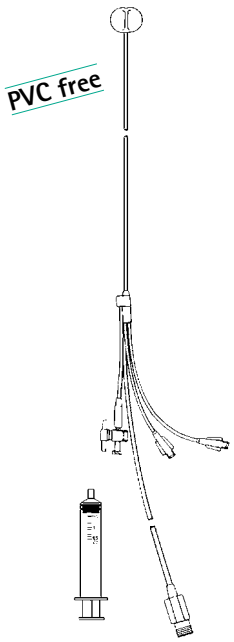



| | Corodyn P1/P2 | Code-Number | Sales unit-pcs. |
|---|---|---|---|
| | Balloon floatation catheters for hemodynamic pressure measurement<br>– catheter length 110 cm<br>– catheter marking every 100 mm from the catheter tip as an indicator of depth of introduction and position of catheter<br>– radiopaque | | |
| | **Corodyn P1**<br>Balloon floatation catheter with distal lumen<br>– made of PUR | | |
| | F5 | **5011590** | 5 |
| | F6 | **5011698** | 5 |
| | F7 | **5011795** | 5 |
| | **Corodyn P2**<br>Balloon floatation catheter with two lumina for simultaneous pressure measurement and application of infusions or medications<br>– made of PUR<br>– distance between exit port and catheter tip 19 cm | | |
| | F7 | **5021740** | 5 |

# Corodyn TD/TD-I

## THERMODILUTION CATHETERS WITH BALLOON MADE OF POLYURETHANE (PUR)




| | Corodyn TD | Code-Number | Sales unit-pcs. |
|---|---|---|---|

Thermodilution catheter with balloon for measurement of hemodynamic pressure and cardiac output
- catheter (4 lumina) with lumen for injection of a cold bolus and distal lumen for pressure measurement
- catheter length 110 cm
- thermistor, 35 mm from catheter tip
- catheter marking every 100 mm from the catheter tip as an indicator of depth of introduction and position of catheter
- radiopaque
- special three-pin plug connector for all standard computers and patient monitors
- made of PUR

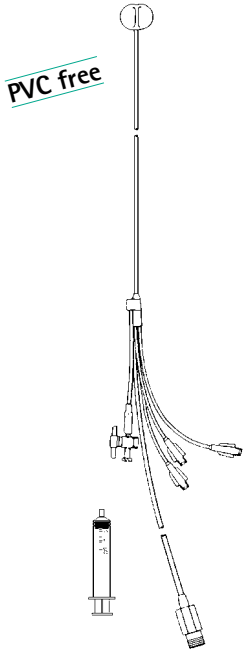
**Corodyn TD**

| | | |
|---|---|---|
| F5 | **5041406** | 5 |
| F6 | **5041414** | 5 |
| F7 | **5041422** | 5 |
| F7, S-Tip | **5041945** | 5 |

**Corodyn TD-I**

Thermodilution catheter with 5 lumina
- same catheters as Corodyn TD but with additional lumen for simultaneous pressure measurement resp. for the application of infusions or medications

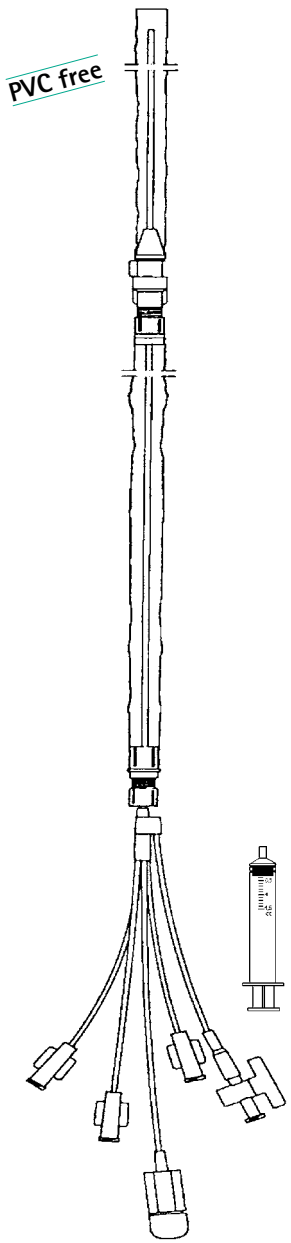
**Corodyn TD-I**




| | | |
|---|---|---|
| PUR, F 7,5 | **5041856** | 5 |

# Corodyn touch-free

## THERMODILUTION CATHETERS WITH BALLOON MADE OF POLYURETHANE (PUR)




| | Corodyn TD touch-free | Code-Number | Sales unit-pcs. |
|---|---|---|---|

Thermodilution catheter with balloon for measurement of hemodynamic pressure and cardiac output

**Catheter with touch-free contamination guard**
- catheter contamination guard (110 cm)
- test chamber
- special connection of the contamination guard to the sheath

**Corodyn TD catheter**
- catheter (4 lumina) with lumen for injection of a cold bolus and distal lumen for pressure measurement
- catheter length 110 cm
- thermistor, 35 mm from catheter tip
- catheter marking every 100 mm from the catheter tip as an indicator of depth of introduction and position of catheter
- radiopaque
- special three-pin plug connector for all standard computers and patient monitors
- made of PUR

**Corodyn TD touch-free**

| | | |
|---|---|---|
| F7 | **5040035** | 5 |

**Corodyn TD-I touch-free**

Thermodilution catheter with 5 lumina
- same catheter as Corodyn TD but with additional lumen for the application of infusions and medications

**Corodyn TD-I touch-free**

| | | |
|---|---|---|
| F7.5 | **5040043** | 5 |

# Corodyn

## BALLOON FLOATATION CATHETERS TECHNICAL DATA

| Catheter | French size | B. Braun Introducer | Length | Maximum Balloon Capacity | Inflated Balloon Diameter | Recommended Guide wire | Distance between Exit Port and Tip | Inner Diameter of Distal Opening |
|---|---|---|---|---|---|---|---|---|
| Corodyn P1 | F5 | F5 | 110 cm | 0.75 $cm^3$ | 8 mm | 0.025" | | 0.025" |
| | F6 | F6 | 110 cm | 1.25 $cm^3$ | 10 mm | 0.025" | | 0.030" |
| | F7 | F7 | 110 cm | 1.50 $cm^3$ | 12 mm | 0.038" | | 0.039" |
| Corodyn P2 | F7 | F7 | 110 cm | 1.50 $cm^3$ | 12 mm | 0.018" | 19 cm | 0.019" |

| Catheter | French size | B. Braun Introducer | Length | Maximum Balloon Capacity | Inflated Balloon Diameter | Recommended Guide wire | Distance betw. Injection Lumen and Tip | Distance betw. Infusion Lumen and Tip | Distance Thermistor cm | Inner Diameter of Distal Opening |
|---|---|---|---|---|---|---|---|---|---|---|
| Corodyn TD | F5 | F5 | 110 cm | 0.75 $cm^3$ | 8 mm | 0.018" | 29 cm | | 3.5 | 0.019" |
| | F6 | F6 | 110 cm | 1.25 $cm^3$ | 10 mm | 0.025" | 29 cm | | 3.5 | 0.025" |
| | F7 | F7 | 110 cm | 1.50 $cm^3$ | 12 mm | 0.025" | 29 cm | | 3.5 | 0.030" |
| Corodyn TD-I | F7,5 | F8 | 110 cm | 1.50 $cm^3$ | 12 mm | 0.025" | 29 cm | 31 cm | 3.5 | 0.030" |

Length marking every 100 mm from the catheter tip.

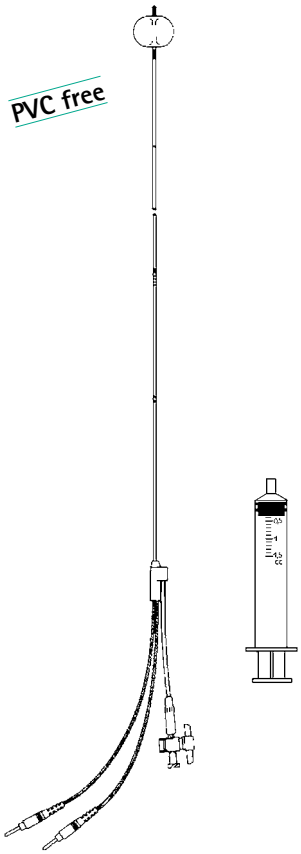
**Catheter computation constants**

| Injectate Temperature (°C) | | 0 °C – 5 °C | | | 23 °C – 25 °C | | |
|---|---|---|---|---|---|---|---|
| Injectate Volume (cm3) (VI) | | 3 | 5 | 10 | 3 | 5 | 10 |
| Computation constants (k) | 5 FR., 100 cm | 0.144 | 0.239 | 0.481 | 0.146 | 0.246 | 0.489 |
| | 6 FR, 100 cm | 0.158 | 0.268 | 0.547 | 0.163 | 0.277 | 0.558 |
| | 7 FR, 110 cm | 0.160 | 0.274 | 0.561 | 0.162 | 0.278 | 0.558 |
| | 7.5 F, 110 cm | 0.160 | 0.274 | 0.561 | 0.162 | 0.278 | 0.558 |
| | 8 F, 110 cm | 0.160 | 0.274 | 0.561 | 0.162 | 0.278 | 0.558 |

$$k = \frac{(1.08)(C_T)60(V_I)}{1000}$$

# Eledyn

## BIPOLAR TEMPORARY BALLOON PROBE FOR ANAESTHESIA AND INTENSIVE CARE




| | Eledyn | Code-Number | Sales unit-pcs. |
|---|---|---|---|
| | Bipolar temporary balloon probe for transvenous heart stimulation<br>– catheter material: Polyurethane (PUR)<br>– the use of stainless steel for electrode rings and wires avoids formation of galvanic elements<br>– stainless steel, gold-plated 2 mm pins<br>▪ **stimulation probe** 110 cm<br>– catheter marking every 100 mm from the tip of the probe as an indicator of depth of introduction and position of the probe<br>– bipolar<br>▪ **electrodes**<br>– electrode length 3 mm<br>– electrode distance 10 mm<br>– radiopaque<br>▪ **with floatation balloon**<br>▪ **Omnifix® Lock**<br>– disposable syringe<br>– with plunger stop for exact volume of air / $CO_2$ for balloon inflation<br>– for connection to balloon lumen with stopcock | | |
| | Eledyn stimulation probe with balloon F5 | **5101506** | 5 |

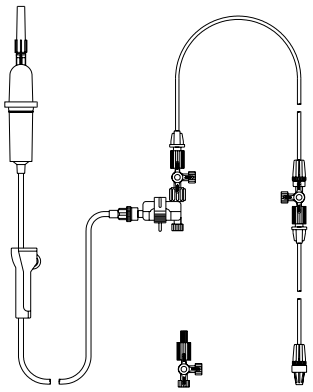
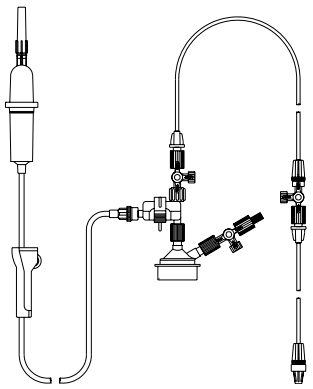
# Combitrans® Easy Click

## CONNECTION CABLES

| | | Code-Number | Sales unit-pcs. |
|---|---|---|---|
| | **Connection Cables** | | |
| | CEC Cable Datascope 2-fold | **5225305** | 1 |
| | CEC Cable DATEX, 2-fold | **5225110** | 1 |
| | CEC Cable DATEX, 3-fold | **5225115** | 1 |
| | CEC Cable DATEX, 4-fold | **5225120** | 1 |
| | CEC Cable GE/Marquette 2-fold | **5225065** | 1 |
| | CEC Cable GE/Marquette 3-fold | **5225070** | 1 |
| | CEC Cable GE/Marquette 4-fold | **5225075** | 1 |
| | CEC Cable HELLIGE 2-fold | **5225310** | 1 |
| | CEC Cable Honeywell 7 2-fold | **5225280** | 1 |
| | CEC Cable Honeywell 7 4-fold | **5225285** | 1 |
| | CEC Cable Honeywell 10 2-fold | **5225290** | 1 |
| | CEC Cable Honeywell 10 4-fold | **5225295** | 1 |
| | CEC Cable HP/Philips 2-fold | **5225050** | 1 |
| | CEC Cable HP/Philips 3-fold | **5225055** | 1 |
| | CEC Cable HP/Philips 4-fold | **5225060** | 1 |
| | CEC Cable METEK 2-fold | **5225140** | 1 |
| | CEC Cable Nihon Koden 5 2-fold | **5225260** | 1 |
| | CEC Cable Nihon Koden 5 4-fold | **5225265** | 1 |
| | CEC Cable Nihon Koden 14 2-fold | **5225270** | 1 |
| | CEC Cable Nihon Koden 14 4-fold | **5225275** | 1 |
| | CEC Cable SIEMENS7/DRÄGER, 2-fold | **5225095** | 1 |
| | CEC Cable SIEMENS7/DRÄGER, 3-fold | **5225100** | 1 |
| | CEC Cable SIEMENS7/DRÄGER, 4-fold | **5225105** | 1 |
| | CEC Cable SIEMENS10/DRÄGER,2-fold | **5225080** | 1 |
| | CEC Cable SIEMENS10/DRÄGER,3-fold | **5225085** | 1 |
| | CEC Cable SIEMENS10/DRÄGER,4-fold | **5225090** | 1 |
| | CEC Cable Siemens Miniograph 2-fold | **5225125** | 1 |
| | CEC Cable Spacelab 2-fold | **5225145** | 1 |
| | CEC Cable Spacelab 4-fold | **5225150** | 1 |
| | CEC Cable Stoeckert 3-fold | **5225300** | 1 |
| | CEC Cable Welch Allyn 2-fold | **5225315** | 1 |

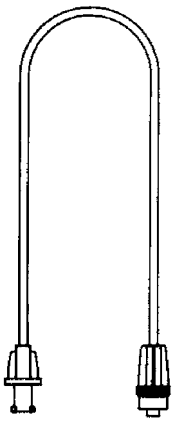
# Combidyn®

## MONITORING KIT FOR PRESSURE MEASUREMENT WITH REUSABLE TRANSDUCER

| | Combidyn® | Code-Number | Sales unit-pcs. |
|---|---|---|---|
|  | Monitoring kit for physiological pressure measurement<br><br>**Combidyn® Monitoring kit**<br>Basic kit, without pressure dome<br>▪ **Intrafix M**<br>– special administration kit for pressure measurement<br>▪ **Combidyn® flush device**<br>– quick flush rate – continuous flush rate 3 ml/h at 300 mmHg<br>▪ **Discofix®-3**<br>– three-way stopcock, red<br>▪ **Combidyn® pressure tubing 125 cm**<br>– ø 1.5 x ø 2.7 mm<br>– with red stripes<br>▪ **Combidyn® pressure tubing 20 cm**<br>– ø 1.5 x ø 2.7 mm<br>– with red stripes | | |
| | Combidyn® Monitoring Kit | **5205689** | 25 |
|  | **Combidyn® Monitoring Kit**<br>Basic kit, with pressure dome<br>– Same configuration as above, but with pressure exchanging dome | | |
| | Combidyn®<br>Reusable Transducer/Disposable domes/Flush device | **5206502** | 25 |
| | for SensoNor 840 transducers | **5207410** | 25 |

# Combidyn®

## PRESSURE TUBINGS MADE OF DEHP-FREE PVC

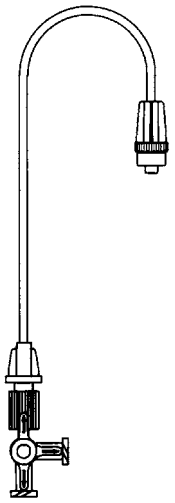


**Combidyn®**

Pressure tubing for the measurement of physiological pressure
- ø 1.5 x 2.7 mm
- undamped and accurate pressure monitoring
- pressure stability tested up to 8 bar
- transparent for visual control
- tubing of various lengths
- dead space approx. 1.2 ml/m
- tube length matches practical requirements
- colour-coding:
- red stripes (arterial)
- blue stripes (venous)
- yellow stripes (pulmonal arterial)

- **luer-fittings**
  - with special screw thread
  - male/female
  - ABS

| length | Code-Number | Sales unit-pcs. |
|---|---|---|
| **Combidyn® transparent** | | |
| 20 | **5204984** | 50 |
| 30 | **5204992** | 50 |
| 50 | **5205000** | 50 |
| 100 | **5205018** | 50 |
| 150 | **5205026** | 50 |
| 200 | **5205034** | 50 |
| **Combidyn® transparent with red stripes** | | |
| 20 | **5204941** | 50 |
| 100 | **5204976** | 50 |
| 150 | **5205042** | 50 |
| 200 | **5205050** | 50 |
| **Combidyn® transparent with blue stripes** | | |
| 100 | **5205255** | 50 |
| 150 | **5205263** | 50 |
| 200 | **5205271** | 50 |

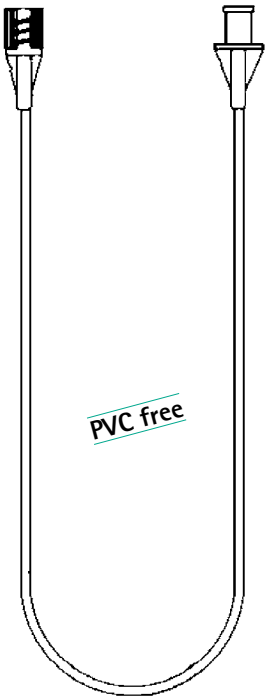


**Combidyn® pressure tubing with three-way stopcock**
- pressure tube, red, ø 1.5 mm x ø 2.7 mm, 20 cm
- connected three-way stopcock, red

| | | |
|---|---|---|
| Combidyn® pressure tubing with three-way stopcock | **5208599** | 50 |

# Combidyn®

## PRESSURE TUBING MADE OF POLYETHYLENE




| Combidyn® | Code-Number | Sales unit-pcs. |
|---|---|---|

Pressure tubing for physiological pressure measurement and intravenous medications

**Combidyn® Polyethylene**
- transparent Polyethylene
- especially useful for infusion of drugs with PVC-incompatibility
- pressure resistance tested up to 8 bar
- transparent for visual control
- reduced dead space
- easy handling due to flexible material
- especially for paediatric and neonatal pressure measurement
- tubing diameter ø 1.0 x 2.0 mm
- dead space approx. 0.8 ml/m

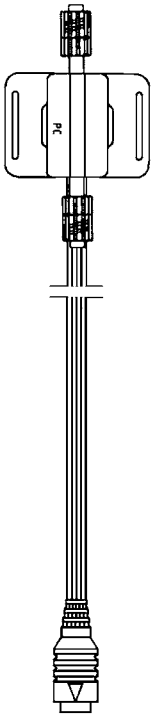
| length | Code-Number | Sales unit-pcs. |
|---|---|---|
| **Combidyn® transparent** | | |
| 15 | **5204995** | 50 |
| 30 | **5214993** | 50 |
| 100 | **5215019** | 50 |
| 120 | **5201281** | 50 |
| 150 | **5215027** | 50 |
| 180 | **5201337** | 50 |
| 200 | **5215035** | 50 |
| 240 | **5201272** | 50 |
| **Combidyn® transparent with red stripes** | | |
| 30 | **5204950** | 50 |
| 150 | **5215043** | 50 |
| **Combidyn® transparent with blue stripes** | | |
| 30 | **5205239** | 50 |
| 150 | **5215264** | 50 |

**Combidyn® pressure tubing**
Pressure tubing for additional connection of a three-way stopcock with a catheter.
- pressure tubing Combidyn® PE ø 1.0 x 2.0 mm with blue stripes
- luer-fittings male/male

| | | |
|---|---|---|
| 150 blue | **5210577** | 50 |

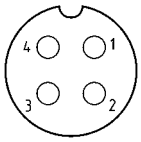
# Combitrans®

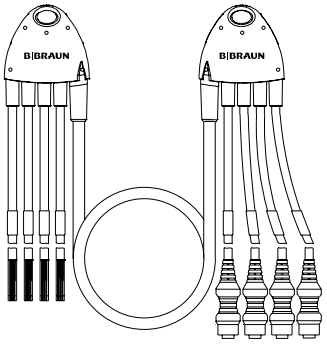
## DISPOSABLE TRANSDUCER



| Combitrans® | Code-Number | Sales unit-pcs. |
|---|---|---|
| Disposable transducer for physiological pressure measurement<br>– can be used in combination with all CF-class monitors<br>– adapts to interface cable with plug connection<br>– modern chip technology for an accurate registration of values<br>– precalibrated sensor with constant electrical parameters (sensitivity, linearity, zero stability)<br>– straight fluid channel for an easy air-bubble free filling | | |
| Combitrans® disposable transducer | **5203660** | 20 |

# Combitrans® Monitoring Cables

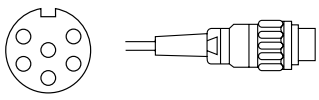
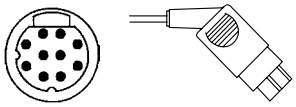
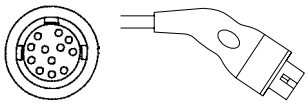
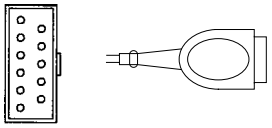
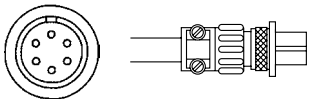
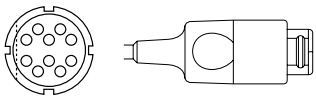


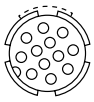
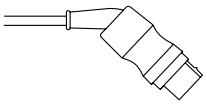
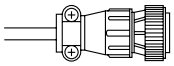
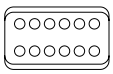
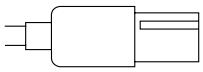
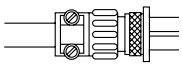
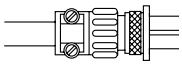
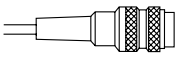
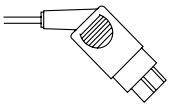

**Connection cables**
- to connect Combitrans® disposable transducers with patient monitors (CF-class)
- internal adaption to monitor specification
- length 3 m

**Transducer plug /colours monitor cable**
PIN 1 = -UB (white)
PIN 2 = + Signal (green)
PIN 3 = + UB (yellow)
PIN 4 = -Signal (grey)

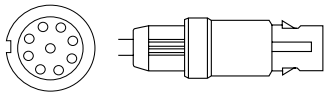
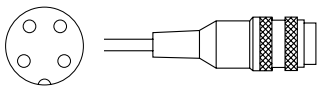
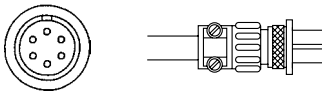
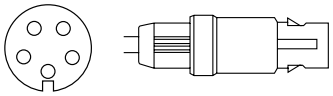
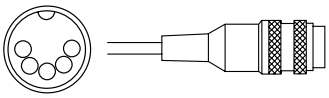
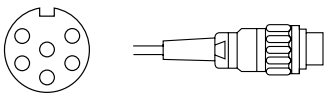
**Cable Management**
- safe and compact
- easy to clean
- simplify your cable management
- available as double, triple and quadruple

| plug details / picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|
| | **CABLE MANAGEMENT** | | | |
|  | Combitrans®-Cable-Datascope double | 6 | **5203467** | 3.0 m |
| | Combitrans®-Cable-Datascope triple | 6 | **5203477** | 3.0 m |
| | Combitrans®-Cable-Datascope quadruple | 6 | **5203487** | 3.0 m |
|  | Combitrans®-Cable-Datex double | 10 | **5203424** | 3.0 m |
| | Combitrans®-Cable-Datex triple | 10 | **5203434** | 3.0 m |
| | Combitrans®-Cable-Datex quadruple | 10 | **5203444** | 3.0 m |
|  | Combitrans®-Cable-HP double | 12 | **5205422** | 3.0 m |
| | Combitrans®-Cable-HP triple | 12 | **5206433** | 3.0 m |
| | Combitrans®-Cable-HP quadruple | 12 | **5207440** | 3.0 m |
|  | Combitrans®-Cable-Marquette double | 11 | **5202422** | 3.0 m |
| | Combitrans®-Cable-Marquette triple | 11 | **5202433** | 3.0 m |
| | Combitrans®-Cable-Marquette quadruple | 11 | **5202444** | 3.0 m |
|  | Combitrans®-Cable-Spacelab double | 6 | **5209222** | 3.0 m |
| | Combitrans®-Cable-Spacelab triple | 6 | **5209233** | 3.0 m |
| | Combitrans®-Cable-Spacelab quadruple | 6 | **5209244** | 3.0 m |
|  | Combitrans®-Cable-Siemens double | 10 | **5203270** | 3.0 m |
| | Combitrans®-Cable-Siemens triple | 10 | **5203280** | 3.0 m |
| | Combitrans®-Cable-Siemens quadruple | 10 | **5203290** | 3.0 m |

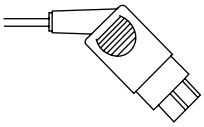
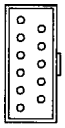
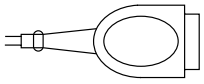
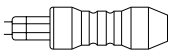
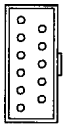
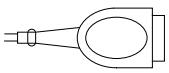
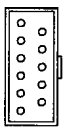
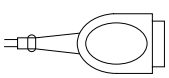
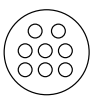
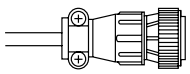
# Combitrans® Monitoring Cables

| plug details | picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|---|
| | | **ACTA GRAPH** | | | |
| *(no illustration)* | | Polygraph | 7 | **5209234** | 3.0 m |
| | | **ARROW** | | | |
|  |  | IABP ACAT-1 Kontron Stecker | 12 | **5203408** | 3.0 m |
| | | Kwat II Plus | 12 | **5202337** | 3.0 m |
| | | **BARD** | | | |
| |  | EPU Appliance 1344; LAB-System<br>ECG / PR-200847 (Insertion) | 8 | **5212542** | 3.0 m |
| | | **B. Braun** | | | |
|  |  | VISICON IBP supply for CombiCable CC<br>M010; M011; M111; M211 | 12 | **8732582** | 1.5 m |
| | | **BCI** | | | |
| |  | 6200; 9100; 9200<br>Advisor | 6 | **5203511** | 3.0 m |
| | | **BIOMEDICAL IVY** | | | |
| |  | 401; 402; 403; 403D; 404; 405D;<br>700; 701; 704; 706; 707 | 6 | **5203511** | 3.0 m |
| | | **BIOTRONIK** | | | |
| |  | EPM; HBV (20); HDR (20);<br>Franke-Druck; MS4010; MS6010; MS8010 | 5 | **5203260** | 3.0 m |
| | | EP-Control | 7 | **5209100** | 3.0 m |
| | | **BRUKER** | | | |
| *(no illustration)* | | SM 784; 785; 786; TM 910<br>Defigard 2002; Physiogard MB 910 | 12 | **5201497** | 3.0 m |
| | | **CARDIO CAP** | | | |
| |  | See Datex Engstrom | 10 | **5203414** | 3.0 m |

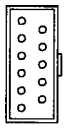
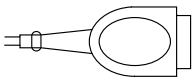
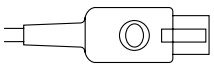
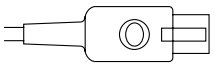
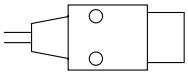
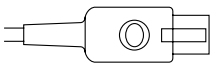
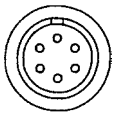
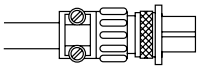
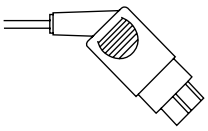
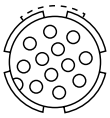
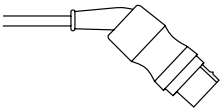
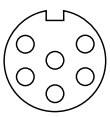
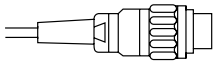
# Combitrans® Monitoring Cables

| plug details / picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|
|  | **CARDIOTEC**<br>EP Tracer | 9 | **5206153** | 3.0 m |
|  | **COBE**<br>CDX III | 4 | **5211670** | 3.0 m |
| *(no illustration)* | **CORPULS**<br>Corpuls 3 | 11 | **5211468**<br>+ Corpuls adapter cable (04233.02) | 3.0 m |
| | Note: The Corpuls Adapter has to be ordered directly at Corpuls or an authorized distributor. | | | |
|  | **CRITIKON**<br>DINAMAP PLUS (8720; 8721; 8722)<br>DINAMAP MPS Select / Portable | 6 | **5203511** | 3.0 m |
|  | **CRITICARE**<br>Scholar 1 Modell 2200; PoetPlus | 5 | **5206152** | 3.0 m |
| *(no illustration)* | **DANICA**<br>Dialogue 2000 | 10 | **5213363** | 3.0 m |
|  | **DANTEC**<br>21C15; 23M02; 23M04; UD5000 MK2; UD5500 MK2;<br>Urodyne 5000; 5500;<br>Menuet; Menuet Compact; Etude; Duet; Video | 5 | **5202825** | 3.0 m |
|  | **DATASCOPE**<br>System 80; 82; 83; 84; 90; 90T; 95; 98,<br>97 IABP; 850; 870; P2; P3;<br>2000; 2000A; 2001; 2001A; 2002;<br>x 2002A; 2200I; 3000; Passport; CS-100; CS-300 | 6 | **5203457** | 3.0 m |

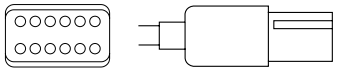
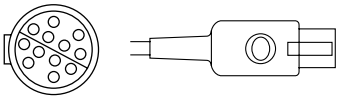
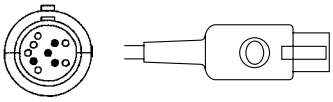
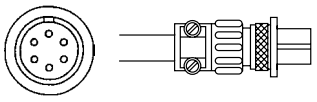
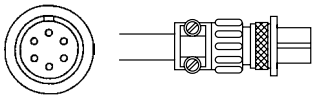
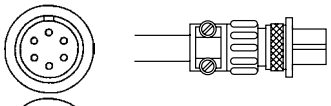
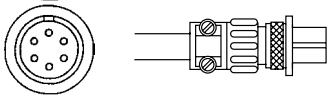
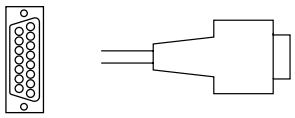
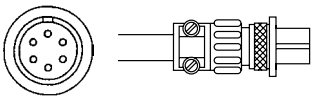
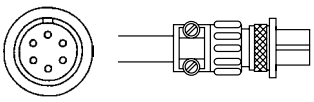
# Combitrans® Monitoring Cables

| plug details | picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|---|
| | | **DATASCOPE / Mindray Medical Germany GmbH** | | | |
| | | PM 9000 Express | 6 | **5203511** | 3.0 m |
| | *(no illustration)* | iPM 9800, BeneView (T5, T8) | 12 | **5203511** + Mindray adapter cable PN: 0010-20-42795 | |
| | | Passport V | 5 | **5203457** + Mindray adapter cable PN: 040-000096-00 | |
| | | **DATEX** | | | |
| |  | Cardio-Cap CC-104; CCI-104; CMO-104; AS/3; CS/3; Light Cardiocap II CG-1G; S/5 light; CG-1GS; CG-2CS; CG-2G; CG-2GS; CH-1R; CH-1RS; CH-2; CH-2s; M-ESTP; M-ETP; M-P | 10 | **5203414** | 3.0 m |
|  |  | all moduls with P (e.g. E-PRESTN, E-PT, E-PP) | 11 | **5211468** | 3.0 m |
| | | **DISA** | | | |
| | *(no illustration)* | 2100; 21C15 | 6 | **5202833** | 3.0 m |
| | | **DRAEGER** | | | |
| |  | Cato; Cicero EM; Vitara Parameterbox PB 8800; PM 8010; PM 8014; PM 8040; PM8060; Sulla; UM3; UM3.1; | 7 | **5203350** | 3.0 m |
|  |  | North American Draeger Monitor Vitalert 2000 Dash 2000/3000/4000 | 11 | **5211468** | 3.0 m |
| | *(no illustration)* | MPod | 5 | **5203251** | |
| | *(no illustration)* | Mpod - active | 5 | **5203255** | |
| | *(no illustration)* | Adapter for Hämobox/HemoMed 2 channals, D-Sub-Plug | 15 | **5203399** | 0.1 m |
|  |  | **E for M** | | | |
| | | see Marquette PDS 300 | 11 | **5211468** | 3.0 m |
| | | **GE / MARQUETTE** | | | |
|  |  | 2000 Series 7000 Series 7010 Series (not traded anymore) | 8 | **5212430** | 3.0 m |

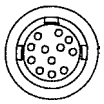
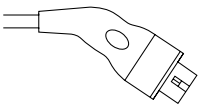
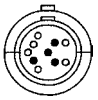
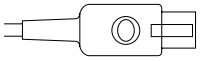
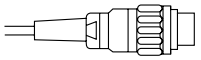
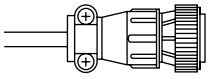
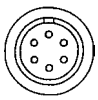
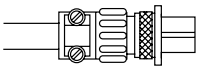
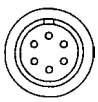
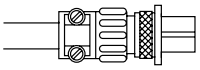
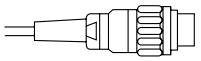
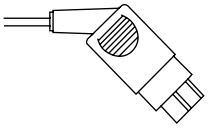
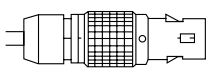
# Combitrans® Monitoring Cables

| plug details / picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|
|   | **GE / MARQUETTE**<br>Cath-Lab; MAC-Lab (general term)<br>Tram Module 100 up to 600; Muse<br>Solar 7000; 8000; 9000; 808; Cardio-Window<br>Eagle/Dash 1000; 2000; 3000; 3100; 4000 | 11 | **5211468** | 3.0 m |
|  | **HELLIGE**<br>Vicom (5. Generation)<br>SMU 610; 611; 612; 613; 630; 639;<br>SMK 230; 231; 260; SMU-EVO<br>Caution: Marquette Eagle | 10 | **5201098** | 3.0 m |
|  | Servomed (4.Generation)<br>SMV 104; 107; 111:<br>SMS 104; 108; 109; 164; 168; 302; 304; 308<br>SMK 155 | 10 | **5203295** | 3.0 m |
|  | Midas | 18 | **5213169** | 3.0 m |
|  | Vicom | 10 | **5211972** | 5.0 m |
| *(no illustration)* | **HONEYWELL**<br>CM 120;130;150; PM 300; 301 | 7 | **5223350** | 3.0 m |
| | Philips Physio-Cardiopan | 9 | **5203392** | 3.0 m |
|   | **INVIVO RESEARCH**<br>3000; 3200; Omni-trek TVS<br>Millennia; Omeda; 1400 Series; Expression | 6 | **5203511** | 3.0 m |
| *(no illustration)* | **JOSTRA**<br>HLM 20/21 | 5 | **5216767** | 3.0 m |
|  | **KONE**<br>M560A; M565A; M575; MA544 | 10 | **5203414** | 3.0 m |
|   | **KONTRON**<br>Minimon 7131 up to 7136: Fetalmon 2A; 2B<br>Fetalogic 4000; Fetasonde 5; 5A: 5B;<br>K2000 Balloon Pump; KAAT II;<br>Module 10 up to 7286; Supermon | 12 | **5202337** | 3.0 m |
|   | Series 108; 200 | 6 | **5203457** | 3.0 m |

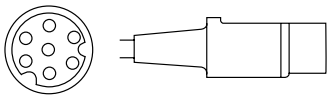
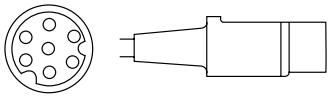
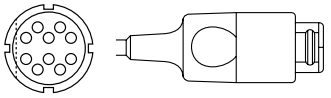
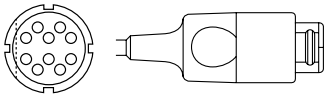
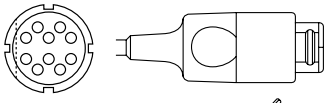
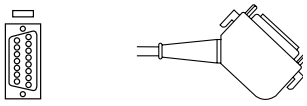
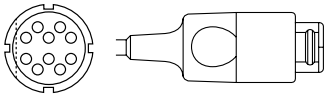
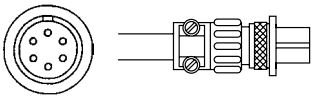
# Combitrans® Monitoring Cables

| plug details / picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|
|  | **LOHMEIER / B. BRAUN** | | | |
| | VISICON IBP supply for CombiCable CC<br>M010; M011; M111; M211 | 12 | **8732582** | 1.5 m |
|  | M6 08; M8 08; M910; PM315 | 12 | **5211661** | 3.0 m |
|  | **LITTON** | | | |
| | see Hellige Servomed | 10 | **5203295** | 3.0 m |
|  | **MEDTRONIC / PHYSIO CONTROL** | | | |
| | VSM-1; VSM-4A; VSM-5 | 6 | **5202485** | 3.0 m |
|  | Lifepak 12; Livepak 15 | 6 | **5203449** | 3.0 n |
|  | **MENNEN** | | | |
| | Horizon 1100; 2000 Series; 3000<br>9000 Series; XL Series | 6 | **5202876** | 3.0 m |
|  | EMS; ENVOY; MERCURY; SOLO; MICRO-SOLO;<br>MR 1200 up to 9200; Cathlab | 6 | **5203511** | 3.0 m |
| *(no illustration)* | ENVOY | 8 | **5202531**<br>+ Mennen adapter part no. 551-360-11 | 3.0 m |
|  | **METEK** | | | |
| | DAVID | 15 | **5203000** | 3.0 m |
|  | **NDE** | | | |
| | Monitor | 6 | **5203511** | 3.0 m |
|  | **NELLCOR PURITAN BENNET** | | | |
| | Escort 300 A | 6 | **5203511** | 3.0 m |
| | PD 240; PB 245; PB 245 P | 10 | **5209242** | 3.0 m |
| *(no illustration)* | **NIHON KOHDEN** | | | |
| | BSM 2301; BSM4101A | | **5203201**<br>+ Nihon Kohden adapter cable (K952) | |

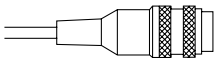
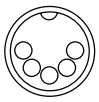
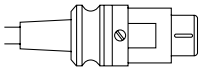
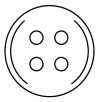
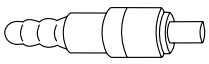
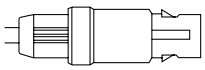
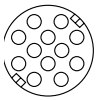
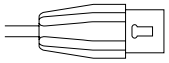
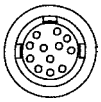
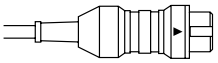
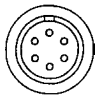
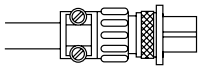
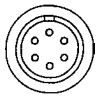
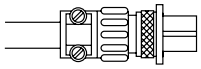
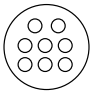
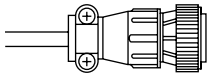
# Combitrans® Monitoring Cables

| plug details | picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|---|
|  |  | **PHILIPS / HEWLETT PACKARD** | | | |
| | | B series<br>Philips MX700/800 | 12 | **5203406** | 3.0 m |
| *(no illustration)* | | A series | 12 | **5213080** | 3.0 m |
| *(no illustration)* | | B series<br>Intellivue MP70 | 12 | **5202850** | 3.0 m |
| *(no illustration)* | | **POLYGRAPH** | | | |
| | | EP 12 | 8 | **5209218** | 3.0 m |
|  |  | **PPG BIOMEDICAL** | | | |
| | | see HELLIGE VICOM | 10 | **5201098** | 3.0 m |
| |  | **PRUCKA** | | | |
| | | CLAB I (see Datascope) | 6 | **5203457** | 3.0 m |
| |  | CLAB II | 8 | **5203460** | 3.0 m |
|  |  | **PROTOCOL** | | | |
| | | Propaq 104; 106; 206; 204<br>Encore; welchallyn; Zoll | 6 | **5203449** | 3.0 m |
|  |  | **PURITAN BENNET** | | | |
| | | PB 224; 240; 245 | 6 | **5203511** | 3.0 m |
| |  | **ROCHE** | | | |
| | | 220: 222; 223; 224;<br>7320; 7324 | 6 | **5203457** | 3.0 m |
| |  | **S&W (SIMSON & WEIL)** | | | |
| | | System 8000 Athena; 8041;<br>Diascope 2; Diascope Traveler;<br>Diascope NT | 10 | **5203430** | 3.0 m |
| |  | **SARNS / 3M** | | | |
| | | 5000; 8000; 8595; 9000 HLM; System 1 | 5 | **5209226** | 3.0 m |
| *(no illustration)* | | **SCHWARZER PICKER** | | | |
| | | DME 48 | 12 | **5203546** | 3.0 m |

# Combitrans® Monitoring Cables

| plug details picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|
| | **SIEMENS / DRAEGER** | | | |
|  | SC 6000, SC7000;<br>Dräger Infinity Delta, Gamma, Gamma XL | 7 | **5212643** | 3.0 m |
|  | SC 6000 Adapter 7 to 10 Pin<br>SC 7000 | 7<br>10 | **5206458** | 0.2 m |
|  | Sirecust 400-1281; SC 8000; Dräger Infinity Kappa<br>Cable for Siemens Hemo Adapter | 10 | **5203361** | 0.1 m |
|  | Sirecust 400-1281; SC 8000; Dräger Infinity Kappa | 10 | **5203263** | 1.7 m |
|  | Sirecust 400-1281; SC 8000; Dräger Infinity Kappa | 10 | **5209250** | 5.0 m |
|  | Mingograph 7 (Europe); CathCor; HKL 440M;<br>Multigraph Recor; CathLab; Micor; Cartridge;<br>Sicor; | 15 | **5203279** | 3.0 m |
|  | Sirecust 400-1281; SC 8000; Dräger Infinity Kappa<br>CrosKop X-ray system; 2002 Tochtersichtgerät | 10 | **5203252** | 3.0 m |
| *(no illustration)* | Sirecust 300 series (342R) | 5 | **5203260** | 3.0 m |
| | **SPACELABS** | | | |
|  | Series 400; 500; 600; 700; 1000; 3000;<br>90300; 90400; (90402; 90470; 90496);<br>90600; Alpha 7; 9; PC 1,2; UVW; 90367 portable<br>PC Express; TEK / VIATEK; Scout | 6 | **5203511** | 3.0 m |
| | Module 90496<br>(10 cm Adapter Cable) | 10 | **Spacelabs 700-0028-00** | 3.0 m |

# Combitrans® Monitoring Cables

| plug details | picture of plug | monitor model | Pins | Code-Number | length |
|---|---|---|---|---|---|
| | | **STOECKERT / SORIN** | | | |
| |  | Stoeckert HLM; CAPS Series; S5 and C5 systems | 4 | **5211670** | 3.0 m |
| | | **SCHILLER** | | | |
|  |  | Cardioswiss CM-8; TM-7<br>Cardiovit AT-2S<br>Argus | 5 | **5211603** | 3.0 m |
|  |  | PB-1000 (F-Series until 2005) | 4 | **5211601** | 3.0 m |
| | | PB-1000 (LP-Series new generation), Argus PRO | 4 | **5211602** | 3.0 m |
| | | **SCHWARZER** | | | |
| |  | Physioscript PD 14 (since 9/98)<br>Cardis 5000 Neurocard Monitor | 5 | **5212846** | 3.0 m |
|  |  | Physioscript PD 14 (till 9/98)<br>CU12-C | 12 | **5211735** | 3.0 m |
|  |  | Cardis 5000 with Philips module | 12 | **5212850** | 3.0 m |
| | | **TEKTRONIX** | | | |
|  |  | 413A; 414; 414-21 | 6 | **5203511** | 3.0 m |
| | | **VIATEK** | | | |
|  |  | see Spacelab | 6 | **5203511** | 3.0 m |
| | | **WITT** | | | |
|  |  | | 8 | **5209500** | 3.0 m |

Customized devices on request. Please ask your clinical specialist.

# Conversion tables

| Pressure units | bar | mm Hg | cm $H_2O$ | atm | psi | kPa |
|---|---|---|---|---|---|---|
| **1 bar =** | 1 | 736 | 1019 | 0.987 | 14.51 | 100 |
| **1 mm Hg =** | 0.0013 | 1 | 1.39 | 0.0013 | 0.02 | 0.133 |
| **1 cm $H_2O$ =** | 9.81*10-4 | 0.736 | 1 | 0.0013 | 0.019 | 0.0981 |
| **1 atm =** | 1.013 | 745 | 1033 | 1 | 14.69 | 101.3 |
| **1 psi =** | 0.0689 | 50.71 | 70.21 | 0.068 | 1 | 6.89 |
| **1 kPa =** | 0.01 | 7.501 | 10.19 | 0.0099 | 0.145 | 1 |

**Metal cannula**

| Gauge | Nominal outer diameter in mm* | acc. to ISO 6009 colour code for injection cannulas |
|---|---|---|
| 30 | 0.3 | yellow |
| 28 | 0.36 | blue-green |
| 26 | 0.45 | brown |
| 24 | 0.55 | pink |
| 22 | 0.7 | black |
| 20 | 0.9 | yellow |
| 18 | 1.2 | rose |
| 16 | 1.6 | white |
| 14 | 2.1 | white-green |
| 12 | 2.7 | white-blue |

*) according to ISO/DIN 9626

**Catheter diameter 1 F = 1/3 mm**

| French (F) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **mm** | 0.33 | 0.67 | 1.0 | 1.33 | 1.67 | 2.0 | 2.33 | 2.67 | 3.0 | 3.33 | 3.67 | 4.0 | 4.67 |

**Wire diameter 1" = 25.4 mm**

| Inch (") | 0.008 | 0.010 | 0.014 | 0.018 | 0.024 | 0.028 | 0.032 | 0.035 | 0.038 | 0.045 | 0.047 | 0.063 | 0.071 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fmm** | 0.20 | 0.25 | 0.36 | 0.46 | 0.61 | 0.71 | 0.81 | 0.89 | 0.97 | 1.14 | 1.19 | 1.60 | 1.80 |

**Catheter length 1 foot = 30.5 cm**

| Feet | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| **cm** | 30.5 | 61.0 | 91.4 | 1.22 | 1.52 | 1.83 |

# Notes

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