

MEDICAL TECHNOLOGY

Connectors for medical applications



www.binder-connector.de

SPECIALIST FOR CIRCULAR CONNECTORS

binder

COMPETENCE AND INNOVATIVE STRENGTH FOR MODERN MEDICAL TECHNOLOGY

The highly sensitive environment of healthcare requires a particularly high level of precision and conscientiousness.

We produce a wide range of industrial connectors as well as mounting and cable connectors for automation technology. Our strengths lie in the individual development, design and automated manufacturing of connectors according to customer specifications

Our product range extends from subminiature connectors to multi-pin machine connectors. binder products are used in agricultural and construction machinery, signal equipment, machine tool construction, medical technology, measuring technology as well as sensor and automation technology.

In the area of medical technology, we draw from a wealth of experience in collaborating with customers. We possess expertise from many years of work in the relevant production and processing technologies, such as plastics injection moulding, soldering, crimping and cable insert moulding.

The sensitive health care environment requires an especially high level of precision and conscientiousness. We meet these demands through support from dedicated contact persons, individually coordinated development steps and modern production standards.

FEATRURES

- DEHP-free (except contacts)
- Shock and vibration acc. to DIN EN 60601-1-11
- Biocompatibility acc. to DIN EN ISO 10993-5
- Drop test acc. to DIN EN 60601-1
- Disinfectant resistance on request
- FDA compliant for aqueous foods acc. to regulation EG596/2009
- Clearance and creepage distances on request



SECTORS AND FIELDS OF APPLICATION

- Analysers
- Respirators
- Dialysis machines
- Machines for ultrasound and electrotherapy
- Infusion pumps

- Contrast agent injectors
- Magnifying glasses
- Patient temperature management systems
- Sleep analysis devices
- Dental chairs



PRODUCT OVERVIEW

Medical applications Snap-in ELC 570 series

- Snap-in locking system with snap hooks
- 12 contacts
- Degree of protection IP54
- Solder termination
- > 5000 mating cycles
- Colour in greywhite similar to RAL 9002
- Ergonomic design of connector
- DEHP-free 1)





Medical applications Subminiature connectors Snap-in IP67 620 series

- Snap-in locking system
- 3 − 8 contacts
- Degree of protection IP67
- Solder termination
- Diameter 11,5 mm
- Coloured types
- · Moulded versions on request
- Colour in greywhite similar to RAL 9002
- DEHP-free 1)

SNAP-IN IP67

620 Series



CONTENTS

	Range	Series	Contacts	Degree of protection	Page
Connect	ors for medical application	ons			
	Snap-in ELC	570	12	IP54	4–7
	Snap-in IP67	620	3–8	IP67	8–15
	Snap-in	720	3–12	IP67	16-26
	Bayonet NCC	770	8	IP67	27-30
	Technical information	on '			31



Medical applications Miniature connectors Snap-in IP67 720 series

- Snap-in locking system
 - 3 − 12 contacts
 - Degree of protection IP67
 - Solder termination
 - Diameter 16 mm
 - Coloured types
 - Moulded versions on request
 - Colour in greywhite similar to RAL 9002
 - DEHP-free 1)



SNAP-IN IP67

720 Series

BAYONET NCC

770 Series



Medical applicationsMiniature connectors Bayonet NCC 770 series

- Bayonet locking system
- 8 contacts
- Degree of protection IP67
- Solder termination
- > 5000 mating cycles
- Coloured types
- Panel mount connector:

 Degree of protection IP67 even when not connected
- Colour in greywhite similar to RAL 9002
- DEHP-free 1)

Additional information

- Shock and vibration acc. to DIN EN 606011-11
- Drop test acc. to DIN EN 60601-1
- Biocompatibility acc. to DIN EN ISO 10993-5
- FDA compliant for aqueous foods acc. to regulation EG596/2009
- Disinfectant resistance on request
- Clearances and creepage distances on request

¹⁾ Except contacts ¹⁾ Except contacts

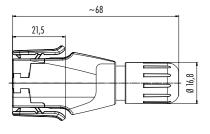
Snap-in ELC

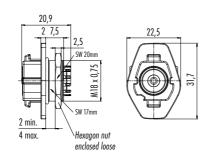
Male cable connector

Female panel mount connector, solder









Contacts	Cable outlet	Ordering-No.	Contacts	Ordering-No.
12	4–6 mm	99 1721 002 12	12	00.4734.000.13
12	6–8 mm	99 1721 000 12	12	09 1724 000 12

Number of contacts	4
Connector locking system	snap-in
Termination	solder
Wire gauge	max. 0,25 mm ² (max. AWG 24)
Cable outlet	4–6 mm, 6–8 mm / —
Degree of protection	IP54
Mechanical operation	> 5000 mating cycles
Upper temperature	+ 85 °C
Lower temperature	− 25 °C
Rated voltage	150 V
Rated impulse voltage	1750 V
Pollution degree	2
Overvoltage categorie	
Material group	
Rated current (40 °C)	2 A
Material of contact	pin CuZn (brass), socket CuSn (bronze)
Contact plating	Au (gold)
Material of contact body	PA
Material of housing	PA
Material of locking	PA

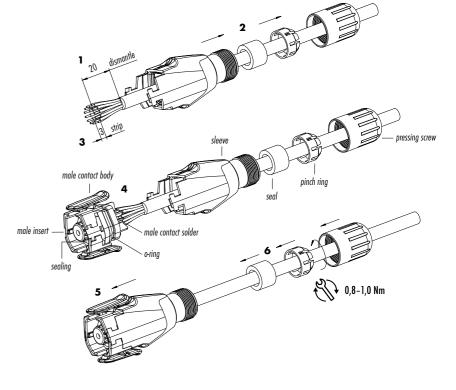
Connectors for medical applications 570

Snap-in ELC

Assembly instruction

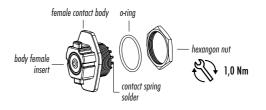
- Strip to 9mm length and take off the cable jacket.
 Bead pressing screw, pinch ring, seal and sleeve to cable.

- Strip the insulation off the wires (L = 3mm).
 Solder single wires.
 Align the sleeve and lock it with the contact body. Unlocking only possible with extraction tool 07-0002-000.
- Push pinch ring over sealing ring to block and tighten with the pressing screw against the sleeve.



Component part drawing

Female panel mount connector

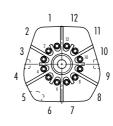


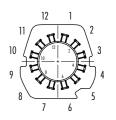
Contact arrangements

Male insert (termination side)

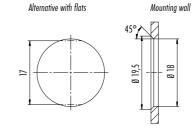
Female insert (termination side)

12 contacts





Panel cut out



Accessories Connectors for medical applications 570

Snap-in ELC

Description

Extraction tool for male cable connector

Flat seal

Ordering-No.

Ordering-No.

O7 0003 000

16 0334 000

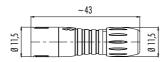


Male cable connector

Male cable connector, red, blue, green







Contacts	Max. cable outlet	Ordering-No.	Contacts	Max. cable Ø	Red	Blue	Green
3	3,5–5 mm	99 9205 400 03	3	3,5–5 mm	99 9205 450 03	99 9205 460 03	99 9205 470 03
4	3,5–5 mm	99 9209 400 04	4	3,5–5 mm	99 9209 450 04	99 9209 460 04	99 9209 470 04
5	3,5–5 mm	99 9213 400 05	5	3,5–5 mm	99 9213 450 05	99 9213 460 05	99 9213 470 05
8	3,5–5 mm	99 9225 400 08	8	3,5–5 mm	99 9225 450 08	99 9225 460 08	99 9225 470 08

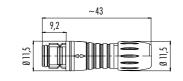
Number of contacts	3	4	5	8					
Connector locking system	snap-in								
Termination		solo	der						
Wire gauge		max. 0,25 mm ²	(max. AWG 24)						
Cable outlet		3,5-5	mm						
Degree of protection		IPé	7						
Mechanical operation		> 500 mat	ing cycles						
Upper temperature		+ 85	5°℃						
Lower temperature		- 25	5°℃						
Rated voltage	12	5 V		63 V					
Rated impulse voltage	15	00 V		800 V					
Pollution degree		2							
Overvoltage categorie		II							
Material group		II							
Rated current (40 °C)	3 A	2,5 A	2 A	1 A					
Material of contact		CuZn (brass)						
Contact plating	Au (gold)								
Material of contact body	PA								
Material of housing		P/	1						
Material of locking		P/	1						

Female cable connector Female cable connector, red, blue, green



Connectors for medical applications **620**





Contacts	Max. cable outlet	Ordering-No.	Contacts	Max. cable Ø	Red	Blue	Green
3	3,5–5 mm	99 9206 400 03	3	3,5–5 mm	99 9206 450 03	99 9206 460 03	99 9206 470 03
4	3,5–5 mm	99 9210 400 04	4	3,5–5 mm	99 9210 450 04	99 9210 460 04	99 9210 470 04
5	3,5-5 mm	99 9214 400 05	5	3,5–5 mm	99 9214 450 05	99 9214 460 05	99 9214 470 05
8	3,5–5 mm	99 9226 400 08	8	3,5–5 mm	99 9226 450 08	99 9226 460 08	99 9226 470 08

Number of contacts	3	4	5	8					
Connector locking system	snap-in								
Termination		SO	lder						
Wire gauge		max. 0,25 mm	2 (max. AWG 24)						
Cable outlet		3,5	5 mm						
Degree of protection		IF	267						
Mechanical operation		> 500 ma	ating cycles						
Upper temperature		+ 8	35 ℃						
Lower temperature		- 2	25 °C						
Rated voltage	12	5 V		63 V					
Rated impulse voltage	150	00 V		800 V					
Pollution degree			2						
Overvoltage categorie									
Material group									
Rated current (40 °C)	3 A	2,5 A	2 A	1 A					
Material of contact		CuSn (bronze)						
Contact plating	Au (gold)								
Material of contact body	PA								
Material of housing		ſ	PA						
Material of locking		ſ	PA						

Male panel mount connector, red

Male panel mount connector, blue

Male panel mount connector, green



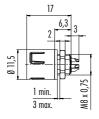


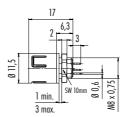






Drilling schemes see page 15





Contacts	Ordering-No.								
3	99 9207 400 03	3	99 9207 050 03	3	99 9207 060 03	3	99 9207 070 03	3	99 9207 490 03
4	99 9211 400 04	4	99 9211 050 04	4	99 9211 060 04	4	99 9211 070 04	4	99 9211 490 04
5	99 9215 400 05	5	99 9215 050 05	5	99 9215 060 05	5	99 9215 070 05	5	99 9215 490 05
8	99 9227 400 08	8	99 9227 050 08	8	99 9227 060 08	8	99 9227 070 08	8	99 9227 490 08

Number of contacts	3	4	5	8					
Connector locking system	snap-in								
Termination		solder/dip sold	der						
Wire gauge		max. 0,25 mm² (max. A	WG 24)/ —						
Cable outlet		_							
Degree of protection		IP67							
Mechanical operation		> 500 mating c	ycles						
Upper temperature		+ 85 °C							
Lower temperature		− 25 °C							
Rated voltage	125	V	63	3 V					
Rated impulse voltage	1500) V	80	0 V					
Pollution degree		2							
Overvoltage categorie		II							
Material group		II							
Rated current (40 °C)	3 A	2,5 A	2 A	1 A					
Material of contact		CuZn (brass)							
Contact plating	Au (gold)								
Material of contact body	PA								
Material of housing	PA								
Material of locking		_							

Connectors for medical applications **620**

Female panel mount connector, blau Female panel mount connector, grün

Female panel mount connector, tauchlöten

Snap-in IP67

Female panel mount connector



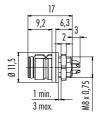
Female panel mount connector, red

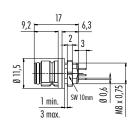






Drilling schemes see page 15

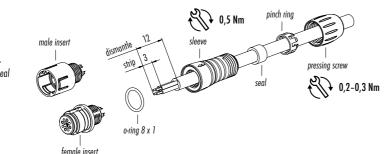




Contacts	Ordering-No.								
3	99 9208 400 03	3	99 9208 050 03	3	99 9208 060 03	3	99 9208 070 03	3	99 9208 490 03
4	99 9212 400 04	4	99 9212 050 04	4	99 9212 060 04	4	99 9212 070 04	4	99 9212 490 04
5	99 9216 400 05	5	99 9216 050 05	5	99 9216 060 05	5	99 9216 070 05	5	99 9216 490 05
8	99 9228 400 08	8	99 9228 050 08	8	99 9228 060 08	8	99 9228 070 08	8	99 9228 490 08

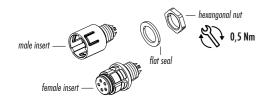
Number of contacts	3	4	5	8					
Connector locking system	snap-in								
Termination		solder/o	dip solder						
Wire gauge		max. 0,25 mm² (r	max. AWG 24)/ —						
Cable outlet		-	_						
Degree of protection		IF	267						
Mechanical operation		> 500 ma	ating cycles						
Upper temperature		+ 8	35 ℃						
Lower temperature		- 2	25 ℃						
Rated voltage	1	25 V		63 V					
Rated impulse voltage	1	500 V		800 V					
Pollution degree			2						
Overvoltage categorie									
Material group									
Rated current (40 °C)	3 A	2,5 A	2 A	1 A					
Material of contact		CuSn (bronze)						
Contact plating	Au (gold)								
Material of contact body	PA								
Material of housing		ŀ	PA						
Material of locking		-	_						

- 1. Dismantle cable to 12 mm length.
- 2. Bead pressing screw, pinch ring, seal and sleeve to cable.
- 3. Fit O-ring on the contact insert.
- 4. Strip and solder single wires.
- Screw on sleeve.
- 6. Tighten pressing screw.

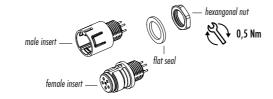


Component part drawing

Panel mount connectors, solder



Panel mount connectors, dip solder

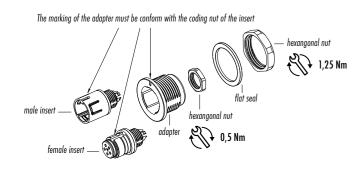


Assembly of adapter



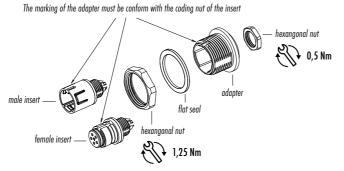
Assembly of adapter, front fastened





Inserts have to be ordered separately

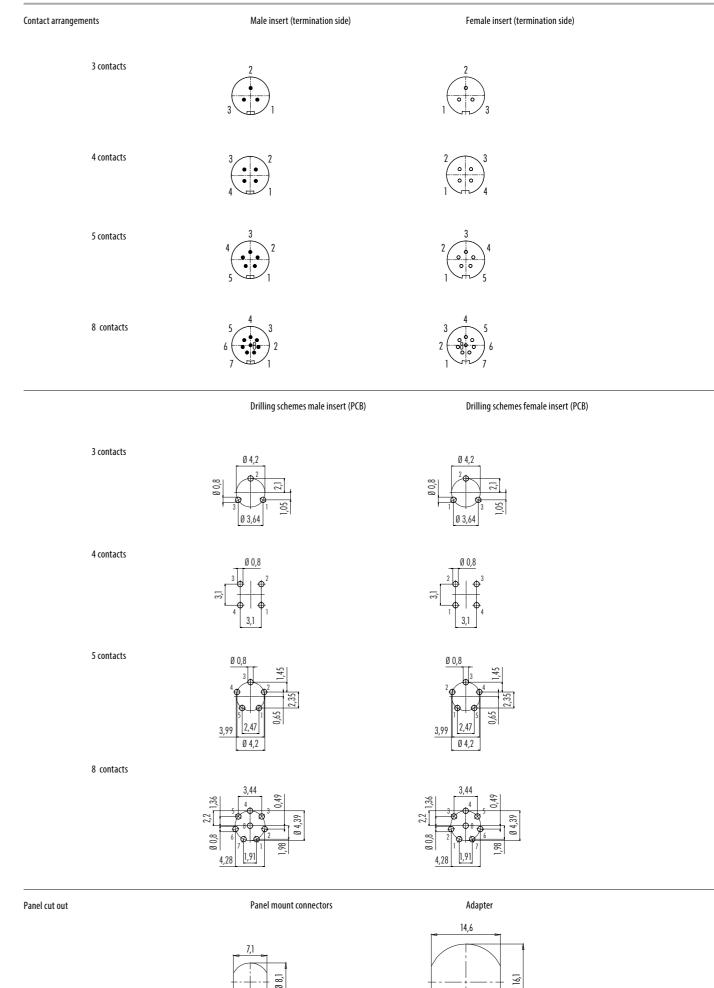
Adapter, front fastened



Inserts have to be ordered separately

Connectors for Connectors for medical applications **620**

Snap-in IP67



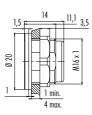
Accessories Connectors for medical applications ¹⁾ **620**

Snap-in IP67

Description Drawing Ordering-No.

Adapter for panel mount connectors

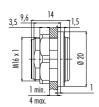




08 2636 400 001

Adapter for panel mount connectors, front fastened





08 2629 400 001

Example for use for adapter

Male panel mount connector



Male panel mount connector with adapter





Female panel mount connector



Female panel mount connector with adapter, front fastened





¹⁾ Additional accessories available in black. See subminiature 620 series.

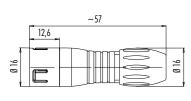


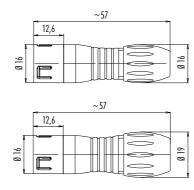
Male cable connector

Male cable connector









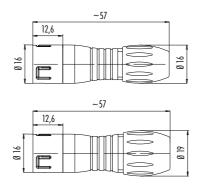
Contacts	Cable outlet	Ordering-No.	Contacts	Cable outlet	Ordering-No.
3	2,5–4 mm	99 9105 403 03	3	4–6 mm	99 9105 400 03
5	2,5–4 mm	99 9113 403 05	5	4–6 mm	99 9113 400 05
8	2,5–4 mm	99 9125 403 08	8	4–6 mm	99 9125 400 08
12	2,5-4mm	_	12	6-8 mm	99 9133 402 12

Number of contacts	3	5	8	12				
Connector locking system	snap-in							
Termination	solder							
Wire gauge	max. 0,75 mm² (max. AWG 18)	max. 0,25 mm	² (max. AWG 24)				
Cable outlet		2,5-4 mm, 4-6 mm		6-8 mm				
Degree of protection		IP67						
Mechanical operation		> 500 mating o	cycles					
Upper temperature		+ 85 °C						
Lower temperature		− 25 °C						
Rated voltage	250 V	125 V	125 V	60 V				
Rated impulse voltage	2500 V	1500 V	1500 V	800 V				
Pollution degree		2						
Overvoltage categorie		II						
Material group		II						
Rated current (40 °C)	7 A	5 A		2 A				
Material of contact	·	CuZn (brass	5)	·				
Contact plating	·	Au (gold)						
Material of contact body	PA							
Material of housing	PA							
Material of locking		PA						

Connectors for medical applications 720

Male cable connector, red, blue, green





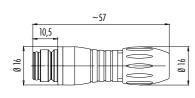
Contacts	Cable outlet	Red	Blue	Green
3	4–6 mm	99 9105 450 03	99 9105 460 03	99 9105 470 03
5	4–6 mm	99 9113 450 05	99 9113 460 05	99 9113 470 05
8	4–6 mm	99 9125 450 08	99 9125 460 08	99 9125 470 08
12	6-8 mm	99 9133 452 12	99 9133 462 12	99 9133 472 12

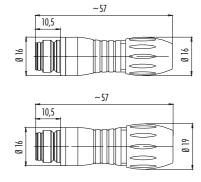
Number of contacts	3	5	8	12					
Connector locking system	snap-in								
Termination	solder								
Wire gauge	max. 0,75	mm² (max. AWG 18)	max. 0,25 mm	² (max. AWG 24)					
Cable outlet		4-6 mm		6-8 mm					
Degree of protection			IP67						
Mechanical operation		> 500	mating cycles						
Upper temperature		-	+ 85 ℃						
Lower temperature		-	− 25 °C						
Rated voltage	250 V	125 V	125 V	60 V					
Rated impulse voltage	2500 V	1500 V	1500 V	800 V					
Pollution degree			2						
Overvoltage categorie			II						
Material group			II						
Rated current (40 °C)	7 A	5 A	2	? A					
Material of contact		Cui	Zn (brass)						
Contact plating	Au (gold)								
Material of contact body	PA								
Material of housing			PA						
Material of locking			PA						

Female cable connector Female cable connector









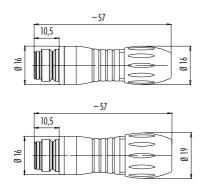
Contacts	Cable outlet	Ordering-No.	Contacts	Cable outlet	Ordering-No.
3	2,5–4 mm	99 9106 403 03	3	4–6 mm	99 9106 400 03
5	2,5–4 mm	99 9114 403 05	5	4–6 mm	99 9114 400 05
8	2,5–4 mm	99 9126 403 08	8	4–6 mm	99 9126 400 08
12	2,5-4mm	_	12	6-8 mm	99 9134 402 12

Number of contacts	3	5	8	12						
Connector locking system	snap-in									
Termination	solder									
Wire gauge	max. 0,75 mm ²	(max. AWG 18)	max. 0,25 mm ²	2 (max. AWG 24)						
Cable outlet		2,5-4 mm, 4-6 mm		6-8 mm						
Degree of protection		IP6	7							
Mechanical operation		> 500 mati	ing cycles							
Upper temperature		+ 85	5°℃							
Lower temperature		- 25	5°C							
Rated voltage	250 V	125 V	125 V	60 V						
Rated impulse voltage	2500 V	1500 V	1500 V	800 V						
Pollution degree		2								
Overvoltage categorie		II								
Material group		II								
Rated current (40 °C)	7 A	5 A	2	A						
Material of contact		CuSn (b	ronze)							
Contact plating		Au (g	old)							
Material of contact body		PA	1							
Material of housing	PA									
Material of locking		PA	1	PA						

Female cable connector, red, blue, green

Connectors for medical applications 720





Contacts	Cable outlet	Red	Blue	Green	
3	4–6 mm	99 9106 450 03	99 9106 460 03	99 9106 470 03	
5	4–6 mm	99 9114 450 05	99 9114 460 05	99 9114 470 05	
8	4–6 mm	99 9126 450 08	99 9126 460 08	99 9126 470 08	
12	6-8 mm	99 9134 452 12	99 9134 462 12	99 9134 472 12	

Number of contacts	3	5	8	12					
Connector locking system	snap-in								
Termination	solder								
Wire gauge	max. 0,75 mm	² (max. AWG 18)	max. 0,25 mm ²	² (max. AWG 24)					
Cable outlet		4–6 mm		6-8 mm					
Degree of protection		IP6	57						
Mechanical operation		> 500 mat	ing cycles						
Upper temperature		+ 85	5°℃						
Lower temperature		- 25	5°℃						
Rated voltage	250 V	125 V	125 V	60 V					
Rated impulse voltage	2500 V	1500 V	1500 V	800 V					
Pollution degree		2							
Overvoltage categorie		II							
Material group		II							
Rated current (40 °C)	7 A	5 A	2	A					
Material of contact		CuSn (b	ronze)						
Contact plating		Au (g	old)						
Material of contact body	PA								
Material of housing	PA								
Material of locking	PA								

Snap-in IP67

Male panel mount connector Male panel mount connector, red

d Male panel mount connector, blue

Male panel mount connector, green

Male panel mount connector, dip solder



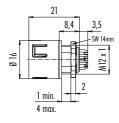


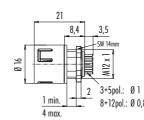






Drilling schemes see page 25





Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
3	99 9107 400 03	3	99 9107 50 03	3	99 9107 60 03	3	99 9107 70 03	3	99 9107 490 03
5	99 9115 400 05	5	99 9115 50 05	5	99 9115 60 05	5	99 9115 70 05	5	99 9115 490 05
8	99 9127 400 08	8	99 9127 50 08	8	99 9127 60 08	8	99 9127 70 08	8	99 9127 490 08
12	99 9135 400 12	12	99 9135 50 12	12	99 9135 60 12	12	99 9135 70 12	12	99 9135 490 12

Number of contacts	3	5	8	12				
Connector locking system	snap-in							
Termination	solder/dip solder							
Wire gauge	max. 0,75 mm ²	(max. AWG 18)	max. 0,25 mm	² (max. AWG 24)				
Cable outlet								
Degree of protection		IP67	7					
Mechanical operation		> 500 matir	ng cycles					
Upper temperature		+ 85	°C					
Lower temperature	− 25 °C							
Rated voltage	250 V	125 V	125 V	60 V				
Rated impulse voltage	2500 V	1500 V	1500 V	800 V				
Pollution degree		2						
Overvoltage categorie		II						
Material group		II						
Rated current (40 °C)	7 A	5 A	2	! A				
Material of contact		CuZn (b	rass)					
Contact plating		Au (go	old)					
Material of contact body		PA						
Material of housing		PA						
Material of locking	_							

Connectors for medical applications 720

Female panel mount connector, blau Female panel mount connector, grün

Female panel mount connector, tauchlöten

Snap-in IP67



Female panel mount connector



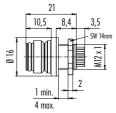
Female panel mount connector, red

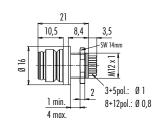






Drilling schemes see page 25

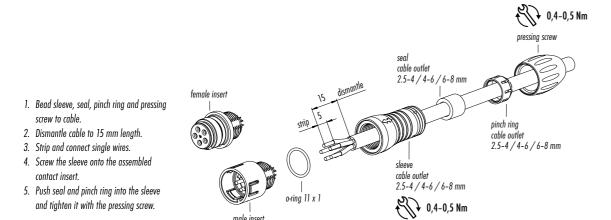




Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
3	99 9108 400 03	3	99 9108 50 03	3	99 9108 60 03	3	99 9108 70 03	3	99 9108 490 03
5	99 9116 400 05	5	99 9116 50 05	5	99 9116 60 05	5	99 9116 70 05	5	99 9116 490 05
8	99 9128 400 08	8	99 9128 50 08	8	99 9128 60 08	8	99 9128 70 08	8	99 9128 490 08
12	99 9136 400 12	12	99 9136 50 12	12	99 9136 60 12	12	99 9136 70 12	12	99 9136 490 12

Number of contacts	3	5	8	12					
Connector locking system	snap-in								
Termination	solder/dip solder								
Wire gauge	max. 0,75 mm ⁻	(max. AWG 18)	max. 0,25 mm ²	(max. AWG 24)					
Cable outlet		_	_						
Degree of protection		IPi	67						
Mechanical operation		> 500 ma	ting cycles						
Upper temperature		+8	5℃						
Lower temperature	−25°C								
Rated voltage	250 V	125 V	125 V	60 V					
Rated impulse voltage	2500 V	1500 V	1500 V 800 V						
Pollution degree			2						
Overvoltage categorie		I	I						
Material group		I	I						
Rated current (40 °C)	7 A	5 A	2	A					
Material of contact		CuSn (I	bronze)						
Contact plating		Au (g	gold)						
Material of contact body	PA								
Material of housing	PA								
Material of locking	_								

Assembly instruction

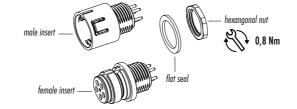


Component part drawing

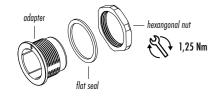
Panel mount connectors, solder



Panel mount connectors, dip solder



Assembly of adapter

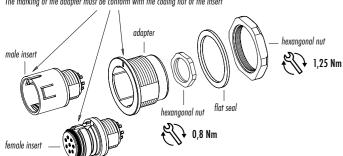


Assembly of adapter, front fastened



Adapter

The marking of the adapter must be conform with the coding nut of the insert

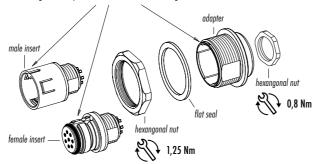


Inserts have to be ordered separately



Adapter, front fastened

The marking of the adapter must be conform with the coding nut of the insert



Inserts have to be ordered separately

Connectors for medical applications 720



Contact arrangements



Male insert (termination side)



Female insert (termination side)

5 contacts





8 contacts





12 contacts

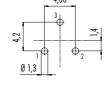




Drilling schemes male insert (PCB), unshielded

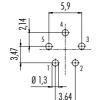
Drilling schemes female insert (PCB), unshielded





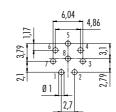


5 contacts



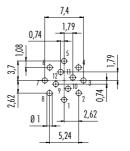


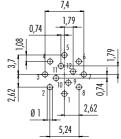
8 contacts





12 contacts





Connectors for medical applications 720

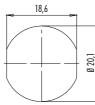
Snap-in IP67

Panel cut out

Panel mount connectors

Adapter



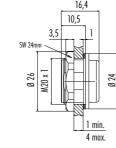


Accessories Connectors for medical applications ¹⁾ **720**

Snap-in IP67

Drawing Ordering-No. Description Adapter for panel mount connectors 08 2433 400 001 Adapter for panel mount connectors, front fastened 08 2434 400 001





Example for use for adapter

Male panel mount connector

Male panel mount connector with adapter







Female panel mount connector

Female panel mount connector with adapter, front fastened









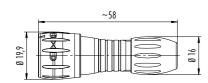


Male cable connector, white

Male cable connector, red, blue, green







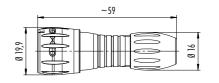
Contacts	Cable outlet	Ordering-No.	Contacts	Cable outlet	Red	Blue	Green
8	2,5–4 mm	99 0771 400 08	8	2,5–4 mm	99 0771 450 08	99 0771 460 08	99 0771 470 08
Ü	2,3 111111	35077110000	Ü	2,3 111111	35 6771 150 00	35077110000	33077177000

Number of contacts	8					
Connector locking system	bayonet					
Termination	solder					
Wire gauge	0,25 mm ² (AWG 24)					
Cable outlet	2,5-4 mm					
Degree of protection	IP67					
Mechanical operation	> 5000 mating cycles					
Upper temperature	+85°C					
Lower temperature	− 25 °C					
Rated voltage	175 V					
Rated impulse voltage	1750 V					
Pollution degree	2					
Overvoltage categorie	ll l					
Material group	ll l					
Rated current (40 °C)	2 A					
Material of contact	CuZn (brass)					
Contact plating	Au (gold)					
Material of contact body	PA					
Material of housing	PA					
Material of locking	PA					

Male cable connector, white Male cable connector, red, blue, green







Contacts	Cable outlet	Ordering-No.	Contacts	Cable outlet	Red	Blue	Green
8	4–6 mm	99 0771 401 08	8	4–6 mm	99 0771 451 08	99 0771 461 08	99 0771 471 08

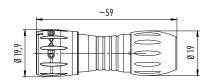
Number of contacts	8
Connector locking system	bayonet
Termination	solder
Wire gauge	0,25 mm ² (AWG 24)
Cable outlet	4-6 mm
Degree of protection	IP67
Mechanical operation	> 5000 mating cycles
Upper temperature	+85℃
Lower temperature	−25 °C
Rated voltage	175 V
Rated impulse voltage	1750 V
Pollution degree	2
Overvoltage categorie	
Material group	
Rated current (40 °C)	2 A
Material of contact	CuZn (brass)
Contact plating	Au (gold)
Material of contact body	PA
Material of housing	PA
Material of locking	PA

Male cable connector, white

Male cable connector, red, blue, green







Contacts	Cable outlet	Ordering-No.	Contacts	Cable outlet	Red	Blue	Green
8	6–8 mm	99 0771 402 08	8	6–8 mm	99 0771 452 08	99 0771 462 08	99 0771 472 08

Number of contacts	8	
Connector locking system	bayonet	
Termination	solder	
Wire gauge	0,25 mm ² (AWG 24)	
Cable outlet	6-8 mm	
Degree of protection	IP67	
Mechanical operation	> 5000 mating cycles	
Upper temperature	+ 85 ℃	
Lower temperature	− 25 °C	
Rated voltage	175 V	
Rated impulse voltage	1750 V	
Pollution degree	2	
Overvoltage categorie	I	
Material group	I	
Rated current (40 °C)	2 A	
Material of contact	CuZn (brass)	
Contact plating	Au (gold)	
Material of contact body	PA	
Material of housing	PA	
Material of locking	PA	

Female panel mount connector, Female panel mount connector, solder, white solder, red

Female panel mount connector, solder, blau

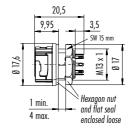
Female panel mount connector, solder, green











Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
8	09 0774 400 08	8	09 0774 450 08	8	09 0774 460 08	8	09 0774 470 08

Number of contacts	8					
Connector locking system	bayonet					
Termination	solder					
Wire gauge	0,25 mm ² (AWG 24)					
Cable outlet	_					
Degree of protection	IP67 also when not mated					
Mechanical operation	> 5000 mating cycles					
Upper temperature	+ 85 °C					
Lower temperature	−25°C					
Rated voltage	175 V					
Rated impulse voltage	1750 V					
Pollution degree	2					
Overvoltage categorie						
Material group						
Rated current (40 °C)	2 A					
Material of contact	CuSn (bronze)					
Contact plating	Au (gold)					
Material of contact body	PA					
Material of housing	PA					
Material of locking	_					

Female panel mount connector, solder, front fastened, white

Female panel mount connector, solder, front fastened, red

Female panel mount connector, solder, front fastened, blau

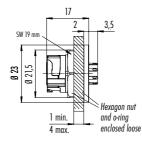
Female panel mount connector, solder, front fastened, green











Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
8	09 0774 580 08	8	09 0774 585 08	8	09 0774 586 08	8	09 0774 587 08

Number of contacts	8					
Connector locking system	bayonet					
Termination	solder					
Wire gauge	0,25 mm ² (AWG 24)					
Cable outlet	_					
Degree of protection	IP67 also when not mated					
Mechanical operation	> 5000 mating cycles					
Upper temperature	+ 85 °C					
Lower temperature	− 25 °C					
Rated voltage	175 V					
Rated impulse voltage	1750 V					
Pollution degree	2					
Overvoltage categorie						
Material group						
Rated current (40 °C)	2 A					
Material of contact	CuSn (bronze)					
Contact plating	Au (gold)					
Material of contact body	PA					
Material of housing	PA					
Material of locking						

Female panel mount connector, Female panel mount connector, dip solder, white dip solder, red

Female panel mount connector, dip solder, blau

Female panel mount connector, dip solder, green



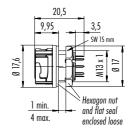






33

Drilling scheme see page 35



Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
8	09 0774 490 08	8	09 0774 495 08	8	09 0774 496 08	8	09 0774 497 08

Number of contacts	8					
Connector locking system	bayonet					
Termination	dip solder					
Wire gauge	_					
Cable outlet	_					
Degree of protection	IP67 also when not mated					
Mechanical operation	> 5000 mating cycles					
Upper temperature	+85 ℃					
Lower temperature	- 25 °C					
Rated voltage	175 V					
Rated impulse voltage	1750 V					
Pollution degree	2					
Overvoltage categorie	II					
Material group	ll l					
Rated current (40 °C)	2 A					
Material of contact	CuSn (bronze)					
Contact plating	Au (gold)					
Material of contact body	PA					
Material of housing	PA					
Material of locking	_					

Bayonet NCC

Female panel mount connector, dip solder, front fastened, white

Female panel mount connector, dip solder, front fastened, red

Female panel mount connector, dip solder, front fastened, blau

Female panel mount connector, dip solder, front fastened, green

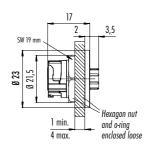








Drilling scheme see page 35



Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.	Contacts	Ordering-No.
8	09 0774 590 08	8	09 0774 595 08	8	09 0774 596 08	8	09 0774 597 08

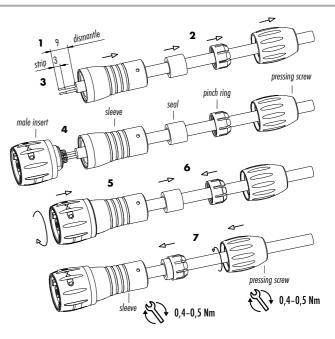
Number of contacts	8
Connector locking system	bayonet
Termination	dip solder
Wire gauge	_
Cable outlet	_
Degree of protection	IP67 also when not mated
Mechanical operation	> 5000 mating cycles
Upper temperature	+ 85 °C
Lower temperature	– 25 °C
Rated voltage	175 V
Rated impulse voltage	1750 V
Pollution degree	2
Overvoltage categorie	
Material group	
Rated current (40 °C)	2 A
Material of contact	CuSn (bronze)
Contact plating	Au (gold)
Material of contact body	PA
Material of housing	PA
Material of locking	_

Connectors for medical applications 770

Bayonet NCC

Assembly instruction

- Strip to 9 mm length and take off the cable jacket.
- 2. Bead pressing screw, pinch ring, seal and distance sleeve to cable.
- 3. Strip the insulation off the wires (L = 3 mm) and tin them.
- 4. Solder inserts.
- Put bayonet adapter to the thread of the distance sleeve and screw it with slight pressure in the direction of the arrow
- 6. Push pinch ring over sealing ring to block.
- Push pressing screw together with clamp-sealing unit towards distance sleeve and screw tightly.



Component part drawing

Female panel mount connector, solder

hexangonal nut

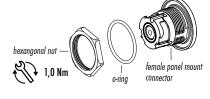
0,8 Nm

coloured main o

Female panel mount connector, dip solder

that seal

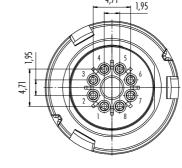
Female panel mount connectors, front fastened



Contact arrangements

Male insert (termination side)

8 pol 8 contacts



Drilling schemes male insert (PCB)

8 contacts

emes male insert (PCB)

__

Drilling schemes female insert (PCB)

Female insert (termination side)



Panel cut out

Panel mount connectors

Panel mount connectors, front fastened



15,2

Disinfectant resistance of the material ¹

	570 Series	620 Series	720 Series	770 Series
Household bleach (100%)	+	Ο	+	+
Household bleach (10%)	+	+	+	+
2-Phenylphenol (< 5%)	+	+	+	+
Melsitt (10%)	+	+	+	+
Melsept SF (10%)	+	0	0	0
Meliseptol (100%)	+	+	+	0
Meliseptol rapid (100%)	-	+	+	+
Hexaquart plus (10%)	-	+	+	+
Clorox (25%) 50% DanKlorix + 50% tap water	0	О	0	0
Isopropanol (100%)	+	+	+	+
Soapy water	+	+	+	+

+ = suitable

O = partially suitable

- = not suitable

Biocompatibility according to DIN EN ISO 10993-5

The biocompatibility test is required by law when the product is worn close to or in the body. The ISO 10993 series of standards is applied for the biological assessment of medical devices. The assessment is based on various test methods, including the cytotoxicity test according to EN ISO 10993-5. This test is used to determine whether a product is damaging tissue or cells or inhibiting their growth. To perform the test, fibroblasts (connective tissue cells) are applied to the product or an extract of the product and incubated for several days. The assessment of cytotoxicity is based on the rate of death of the cells.

FDA compliance with regard to aqueous foods according to Regulation (EC) No. 596/2009

Chemical examination and assessment to ascertain whether the product is allowed to come into contact with food or not. The test determines if the material components of the products are transferred into or onto aqueous foods upon contact.

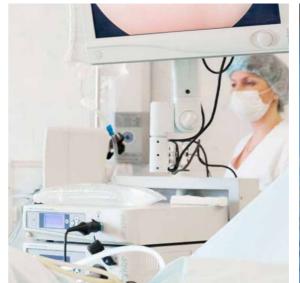
DIN EN 60601

The EN 60601 standard series defines safety requirements (such as mechanical requirements) and ergonomic requirements for medical electrical devices and medical systems. It is published in Germany by the German Institute for Standardization as a DIN standard. The standard is based on IEC version IEC 60601. In addition to the basic standard EN 60601-1, there are about ten ancillary standards and approximately 60 standards with special specifications (particulate standards).



MEDICAL **TECHNOLOGY**

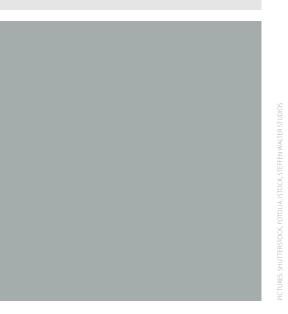
Connectors for medical applications













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vk@binder-connector.de www.binder-connector.de



Specifications may be changed without notice, errors excepted.