

M23 Stainless Steel

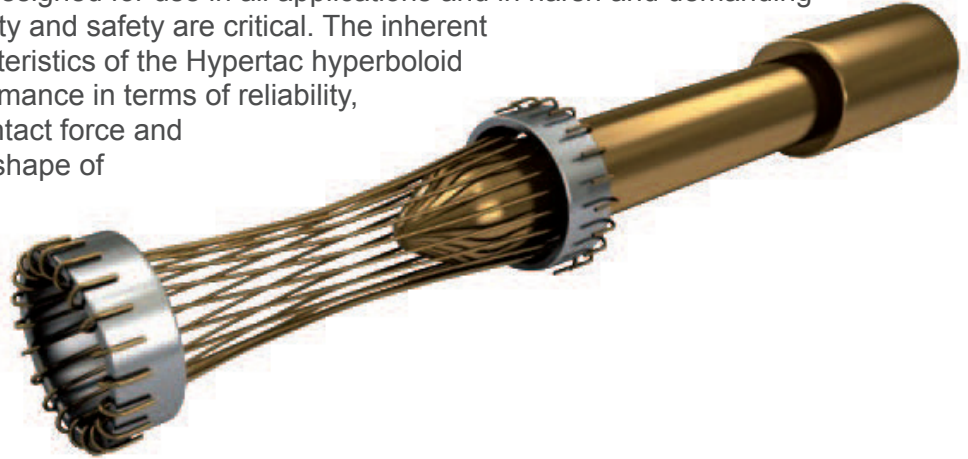
Series L & Series S

Environmentally Sealed Circular Connectors



Hypertac® Hyperboloid Technology

Smiths Interconnect offers an extensive range of superior contact technologies suitable for standard and custom solutions. Hypertac® (HYPERboloid conTACT) is the original superior performing hyperboloid contact technology designed for use in all applications and in harsh and demanding environments where high reliability and safety are critical. The inherent electrical and mechanical characteristics of the Hypertac hyperboloid contact ensures unrivalled performance in terms of reliability, number of mating cycles, low contact force and minimal contact resistance. The shape of the contact sleeve is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a number of linear contact paths.



Features	Benefits
Low insertion/extraction forces The angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.	High density interconnect systems Significant reductions in size and weight of sub-system designs. No additional hardware is required to overcome mating and un-mating forces.
Long contact life The smooth and light wiping action minimizes wear on the contact surfaces. Contacts perform up to 100,000 insertion/extraction cycles with minimal degradation in performance.	Low cost of ownership The Hypertac contact technology will surpass most product requirements, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.
Lower contact resistance The design provides a far greater contact area and the wiping action of the wires insures a clean and polished contact surface. Our contact technology has about half the resistance of conventional contact designs.	Low power consumption The lower contact resistance of our technology results in a lower voltage drop across the connector reducing the power consumption and heat generation within the system.
Higher current ratings The design parameters of the contact (e.g., the number, diameter and angle of the wires) may be modified for any requirement. The number of wires can be increased so the contact area is distributed over a larger surface. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.	Maximum contact performance The lower contact resistance of the Hypertac contact reduces heat build-up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.
Immunity to shock & vibration The low mass and resultant low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without loss of contact. The contact area extends 360° around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity in all circumstances.	Reliability under harsh environments Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. The Hypertac contact provides unmatched stability in demanding environments when failure is not an option.

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M23 Stainless Steel

Environmentally Sealed Connectors



The Smiths Interconnect M23 Stainless Steel series have been specifically developed for applications operating in highly corrosive environments.

Manufactured from high grade stainless steel and advanced polymers, these connectors are ideally suited for use in the Medical, Pharmaceutical, Maritime, Automotive and Food and Beverage Industries. Environmentally sealed to IP67 and chemically resistant to both Lye and Acids, these connectors are protected against the harshest of Industrial processing environments.

In addition to specialist materials, these connectors feature a smooth outer body design to aid industrial wash down processes, by preventing the entrapment of dirt and contaminants. A complete range of options and accessories are available as standard, making this series suitable for a wide range of applications.

Hyperboloid contact technology is ideally suited for use in harsh and demanding environments where high reliability and safety are critical. The electrical and mechanical characteristics of the contact ensure unrivalled performance in terms of reliability, number of mating cycles, low contact forces and electrical stability over time.

These performance characteristics provide a real commercial benefit in terms of the total installed cost of ownership.

Protected against
the harshest of
industrial processing
environments

Features & Benefits

Electrical continuity ensuring failure free performance

- Hypertac® contact technology ensures immunity to shock and vibration and minimal contact resistance
- Outstanding protection against electromagnetic interference through a full 360° screen shielding

Superior performance

- Environmentally sealed
- Corrosion resistant
- Vibration protected

Easy of Assembly and Use

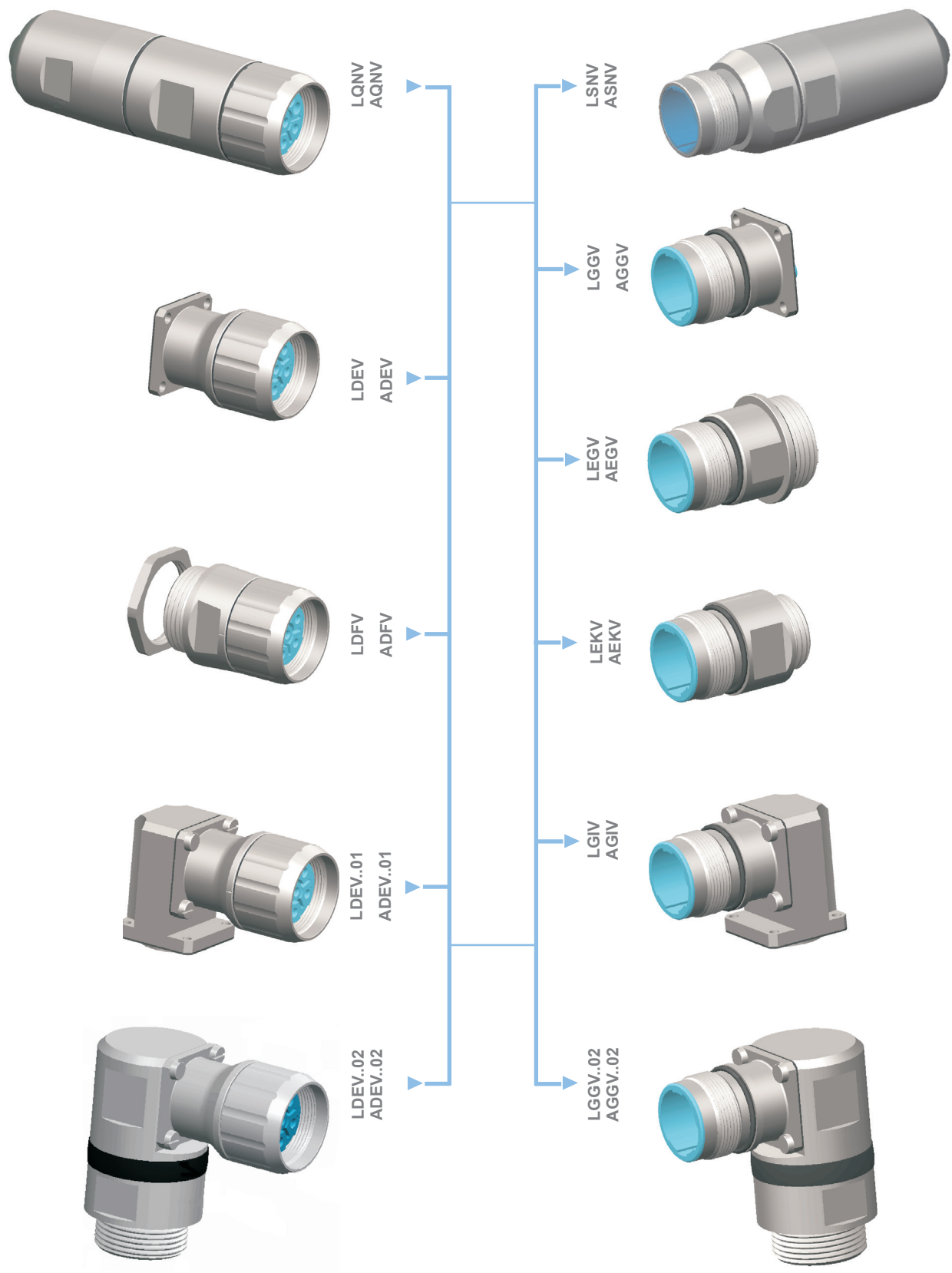
- Hygienic and compact design
- Minimized number of components, simplified assembly and reduced stocking requirements
- Simplified assembly, high contact retention forces

UL certified

- UL/CSA approval file No. 178462

Type Overview

M23 Stainless Steel Power Connectors Series L



Technical Characteristics

M23 Stainless Steel Power Connectors Series L

Mechanical

Standards

Contact diameter 6poles	6 x Ø 2mm	-
Contact diameter 8poles	4 x Ø 1mm + 4 x Ø 2mm	-

Material

Shell	V2A (V4A on demand)	-
Contacts	CuZn alloy	-
Insert	PA, PBT	-
Sealing	FKM, EPDM	-

Finishes

Shell plating	passivated	-
Contacts plating	Gold over nickel	-

Electrical

Current rating	9 A (contact Ø 1mm) 8 A (contact Ø 1mm) 7 A (contact Ø 1mm) 22 A (contact Ø 2mm) 20 A (contact Ø 2mm) 14 A (contact Ø 2mm)	EN 61984 USR / UL1977 CNR / UL1977 EN 61984 USR / UL1977 CNR / UL1977
Voltage rating	250 V (contact Ø 1mm) 250 V (contact Ø 1mm) 630 V (contact Ø 2mm) 600 V (contact Ø 2mm)	EN 61984 USR / CNR / UL1977 EN 61984 USR / CNR / UL1977
Withstanding voltage	2500 V (contact Ø 1mm) 6000 V (contact Ø 2mm)	EN 61984 EN 61984
Contact resistance	<5 mΩ (contact Ø 1mm) <3 mΩ (contact Ø 2mm)	EN 61984 EN 61984
Insulation resistance	10 ¹³ Ωcm	EN 61984
Overvoltage category	III	EN 61984

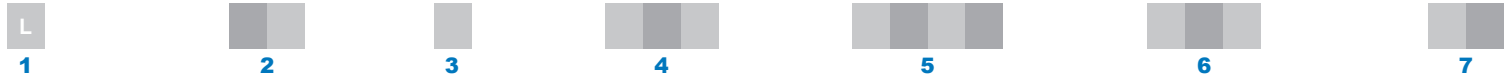
Physical and Environmental

Operating temperature range	-40°C ... 125°C -40°C ... 110°C	EN 61984 UL1977
Storage conditions	-40°C ... 70°C/ min. humidity 40%	-
Environmental level	IP67 (mated)	DIN EN 60529
Contamination level	3 (mated)	EN 61984
Installation altitude	up to 2000 m	EN 61984
Fire & Smoke	Recognition file No E 178462	UL 1977
RoHS	Compliant	-

Consult factory for details

How To Order

M23 Stainless Steel Power Connectors Series L



1 CONNECTOR FAMILY

L	M23 stainless steel circular connectors, Series L
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2 CONNECTOR DESIGN

Q	N	plug with variable shield connection and variable cable clamp	G	G	straight receptacle with flange
S	N	extension with variable shield connection and variable cable clamp	E	G	straight receptacle, threaded connection M 25x1.5
D	E	panel feed through with square flange	E	K	straight receptacle, threaded connection M 20x1.5
D	F	panel feed through, threaded connection M 25x1.5	E	E	straight receptacle, axial sealing, long version
			G	I	angled receptacle with flange

3 PLATING

V	passivated
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4 INSERTS

0	6	A	6 way for pins 6 x Ø 2mm	0	8	A	8way for pins 4 x Ø 1mm + 4 x Ø 2mm
0	6	B	6way for sockets 6 x Ø 2mm	0	8	B	8way for sockets 4 x Ø 1mm + 4 x Ø 2mm

5 TERMINATION STYLE

N	N	N	N	without contacts, loose contacts to be ordered separately	M	R	C	N	including machined pins, 6 x Ø 2mm AWG 20-16
F	R	B	N	including machined sockets, 6 x Ø 2mm AWG 20-16	M	R	K	N	including machined pins, 6 x Ø 2mm AWG 18-14
F	R	D	N	including machined sockets, 6 x Ø 2mm AWG 18-14	M	R	P	N	including machined pins, 6 x Ø 2mm AWG 16-14
F	R	K	B	including machined sockets, 4 x Ø 1mm AWG 24-18 + 4 x Ø 2mm, AWG 20-16	M	R	E	C	including machined pins, 4 x Ø 1mm AWG 24-18 + 4 x Ø 2mm, AWG 20-16
F	R	K	D	including machined sockets, 4 x Ø 1mm AWG 24-18 + 4 x Ø 2mm, AWG 18-14	M	R	E	K	including machined pins, 4 x Ø 1mm AWG 24-18 + 4 x Ø 2mm, AWG 18-14
					M	R	E	P	including machined pins, 4 x Ø 1mm AWG 24-18 + 4 x Ø 2mm, AWG 16-14

6 CABLE CLAMPING

0	0	0	without cable clamp for receptacles and panel feed through
1	7	0	variable clamp for cable Ø 7.7mm to 14.5mm can be used for all shielded and non shielded cables
3	0	5	for cable diameter 5 - 9 mm, can be used for shielded and non-shielded cables
3	0	6	for cable diameter 9 - 15 mm, can be used for shielded and non-shielded cables
3	0	7	for cable diameter 16 mm, can be used for shielded and non-shielded cables

7 VERSION NUMBER

0	1	depending on type and special design see detailed description of connector design LDEV / ADEV
0	2	depending on type and special design see detailed description of connector design LGGV / AGGV / LDEV / ADEV

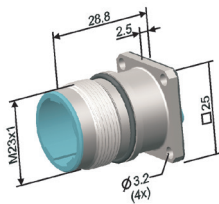
Available Connectors

Power Receptacles Series L with Crimp Contacts

CONTACT ARRANGEMENTS
VIEW MATING FACE

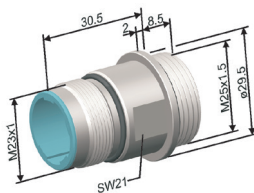
LAYOUT
DESCRIPTION
PART NUMBER CODE

Straight receptacle, radial sealing to the device, mounting flange



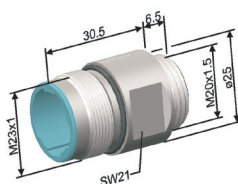
Part number incl. O-ring against vibration on demand

Straight receptacle, axial sealing to the device, connecting thread M25 x 1.5

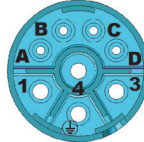


Part number incl. O-ring against vibration on demand

Straight receptacle, axial sealing to the device, connecting thread M20 x 1.5



Part number incl. O-ring against vibration on demand

SHELL	INSERT			CABLE CLAMP	
		06A	08A		
		Termination cross section of the pins in mm²			
		6 x 0.5 - 1.5	6 x 0.75 - 2.5		4 x 0.24 - 1 4 x 0.5 - 1.5
LGGV AGGV*	06A	MRCN		000	
			MRKN		
	08A		MREC		
					MREK
LEGV AEGV*	06A	MRCN		000	
			MRKN		
	08A		MREC		
					MREK
LEKV AEKV*	06A	MRCN		000	
			MRKN		
	08A		MREC		
					MREK

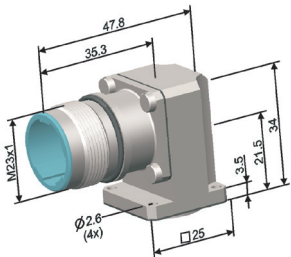
* UL-Version

Power Receptacles Series L with Crimp Contacts

CONTACT ARRANGEMENTS
VIEW MATING FACE

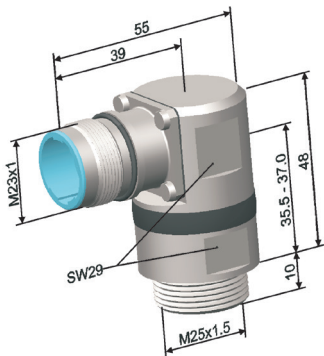
LAYOUT
DESCRIPTION
PART NUMBER CODE

Fixed angled receptacle, radial sealing to the device, mounting flange

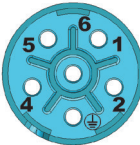
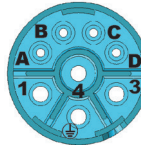


Part number incl. O-ring against vibration on demand

Rotatable receptacle, axial sealing to the device, connecting thread M25 x 1.5



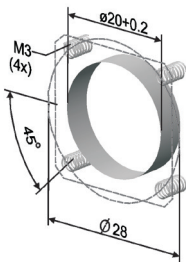
Part number incl. O-ring against vibration on demand

SHELL	INSERT			CABLE CLAMP		
		06A	08A			
		Termination cross section of the pins in mm²				
		6 x 0.5 - 1.5	6 x 0.75 - 2.5		4 x 0.24 - 1 4 x 0.5 - 1.5	4 x 0.24 - 1 4 x 0.75 - 2.5
LGIV AGIV*	06A	MRCN			000	
			MRKN			
	08A			MREC		
						MREK
LGGV AGGV*	06A	MRCN			000 02	
			MRKN			
	08A			MREC		
						MREK

* UL-Version

Drilling drawings

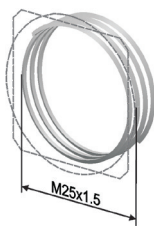
LGGV, LGIV
AGGV, AGIV



LEKV
AEKV



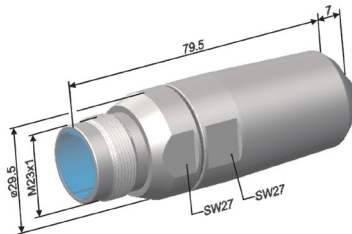
LGGV, LGGV..02
AEGV, AGGV..02



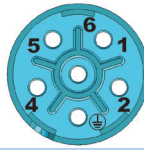
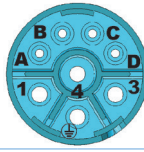
Power Extensions Series L with Crimp Contacts

CONTACT ARRANGEMENTS
VIEW MATING FACELAYOUT
DESCRIPTION
PART NUMBER CODE

Extension with earth connection, variable shield connection and variable cable clamp Ø 7.7 - 14.5 mm



Part number incl. O-ring against vibration on demand

SHELL	INSERT			CABLE CLAMP
		06A	08A	
		Termination cross section of the pins in mm²		
		6 x 1.5 - 2.5	4 x 0.24 - 1 4 x 1.5 - 2.5	
LSNV ASNV*	06A	MRPN		170
	08A		MREP	

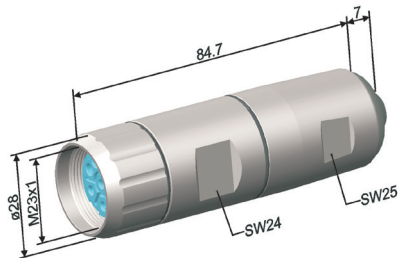
* UL-Version

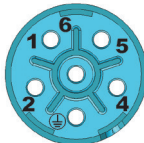
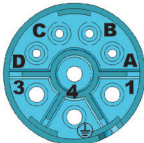
Power Plugs Series L with Crimp Contacts

CONTACT ARRANGEMENTS
VIEW MATING FACE

LAYOUT
DESCRIPTION
PART NUMBER CODE

Plug with earth connection, variable shield connection and variable cable clamps



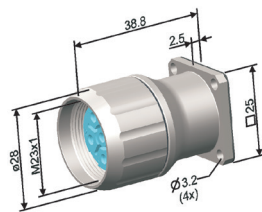
SHELL	INSERT			CABLE CLAMP		
		06B	08B			
		Termination cross section of the pins in mm ²				
		6 x 0.5 - 1.5	6 x 0.75 - 2.5		4 x 0.24 - 1 4 x 0.5 - 1.5	4 x 0.24 - 1 4 x 0.75 - 2.5
LQNV AQNV*	06B	FRBN			305 306 307	
			FRDN			
	08B			FRKB		
						FRKD

* UL-Version

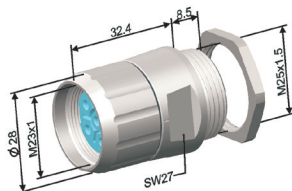
Power Panel Feed Through Series L with Crimp Contacts


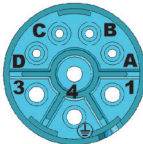
CONTACT ARRANGEMENTS
VIEW MATING FACELAYOUT
DESCRIPTION
PART NUMBER CODE

Straight panel feed through, radial sealing to the device, mounting flange



Straight panel feed through, axial sealing, connecting thread M25x1,5



SHELL	INSERT			CABLE CLAMP		
		06B	08B			
		Termination cross section of the pins in mm ²				
		6 x 0.5 - 1.5	6 x 0.75 - 2.5		4 x 0.24 - 1 4 x 0.5 - 1.5	4 x 0.24 - 1 4 x 0.75 - 2.5
LDEV ADEV*	06B	FRBN				000
			FRDN			
	08B			FRKB		
					FRKD	
LDFV ADFV*	06B	FRBN				000
			FRDN			
	08B			FRKB		
					FRKD	

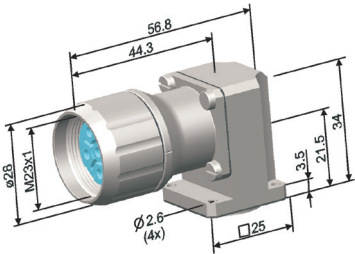
* UL-Version

Power Panel Feed Through Series L with Crimp Contacts

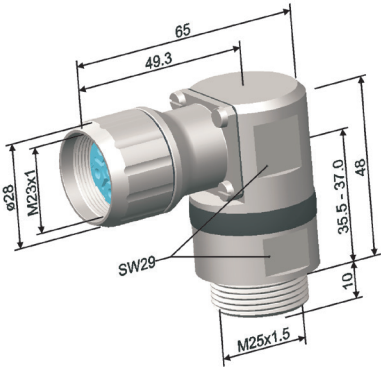
CONTACT ARRANGEMENTS
VIEW MATING FACE

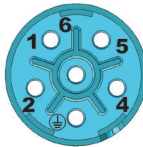
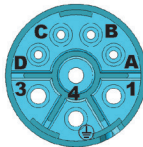
LAYOUT
DESCRIPTION
PART NUMBER CODE

Angled panel feed through, axial sealing to the device, mounting flange



Rotatable angled panel feed through, axial sealing, connecting thread M25x1,5



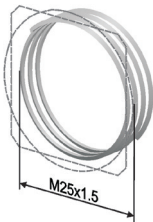
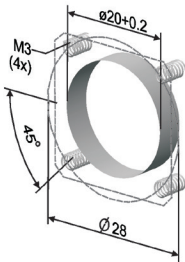
SHELL	INSERT			CABLE CLAMP		
		06B	08B			
		Termination cross section of the pins in mm²				
		6 x 0.5 - 1.5	6 x 0.75 - 2.5		4 x 0.24 - 1 4 x 0.5 - 1.5	4 x 0.24 - 1 4 x 0.75 - 2.5
LDEV ADEV*	06B	FRBN			000 01	
			FRDN			
	08B			FRKB		
						FRKD
LDEV ADEV*	06B	FRBN			000 02	
			FRDN			
	08B			FRKB		
						FRKD

* UL-Version

Drilling drawings





LDEV, LDEV..01
ADEV, ADEV..01

LDFV, LDEV..02
ADFV, ADEV..02



Contacts





Machined Pins Series L

Type	E	C	K	P
Contact diameter [mm]	1	2	2	2
Part number and layout	 021.129.1020	 021.101.2000	 021.147.2000	 021.279.1020
Termination cross section* [mm²] AWG	0.24 - 1 (24 - 18)	0.5 - 1.5 (20 - 16)	0.75 - 2.5 (18 - 14)	1.5 - 2.5 (16 - 14)
Maximum conductor diameter [mm]	1.3	1.8	2.3	2.3
Maximum insulation diameter [mm]	-	-	-	3.5
For following number of contacts	8	6/8	6/8	6/8

Tooling				
Crimping tool	B151	B151	B151	B151
Positioner	B156	B157	B157	B165
Insertion tool	B118	B117	B117	-
Extraction tool	B038/A	B037/A	B037/A	-

*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

Machined Sockets Series L

Type	K	B	D	H
Contact diameter [mm]	1	2	2	2
Part number and layout				
	020.232.2000 	020.090.1020 	020.105.1020 	020.123.1020 
Termination cross section* [mm²] AWG	0.24 - 1 (24 - 18)	0.5 - 1.5 (20 - 16)	0.75 - 2.5 (18 - 14)	0.75 - 2.5 (18 - 14)
Maximum conductor diameter [mm]	1.3	1.9	2.3	2.3
Maximum insulation diameter [mm]	2.1	-	-	4.5
For following number of contacts	8	6/8	6/8	6

Tooling				
Crimping tool	B151** B150	B151	B151	B151 B152 B179
Positioner	B252** B055/A	B157	B157	B154
Insertion tool	B118	-	-	-
Extraction tool	B056/A	-	-	-

*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

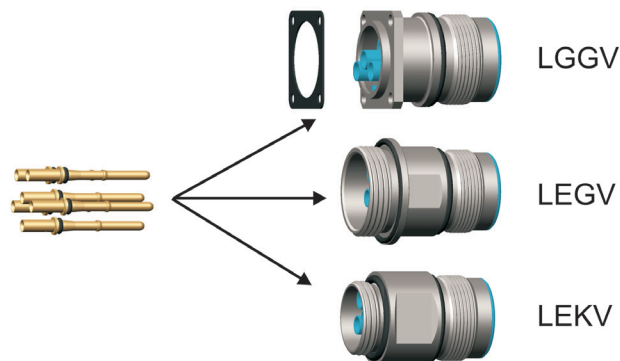
**preferred crimping tool

Assembly instructions

Power receptacle LGGV... LEGV... LEKV... LGIV... LGGV.02

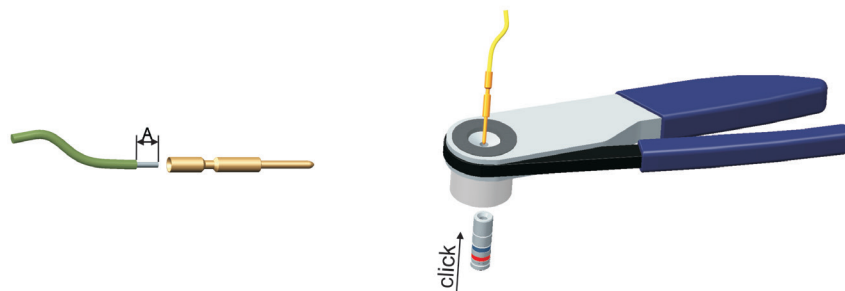
Page 1 of 2

	Stripping Length
	Machined Contacts
A	7 mm

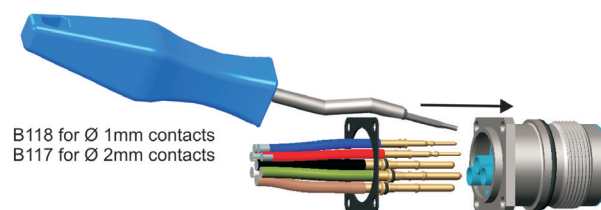


Assembly

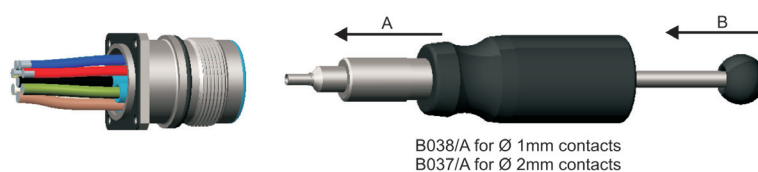
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2



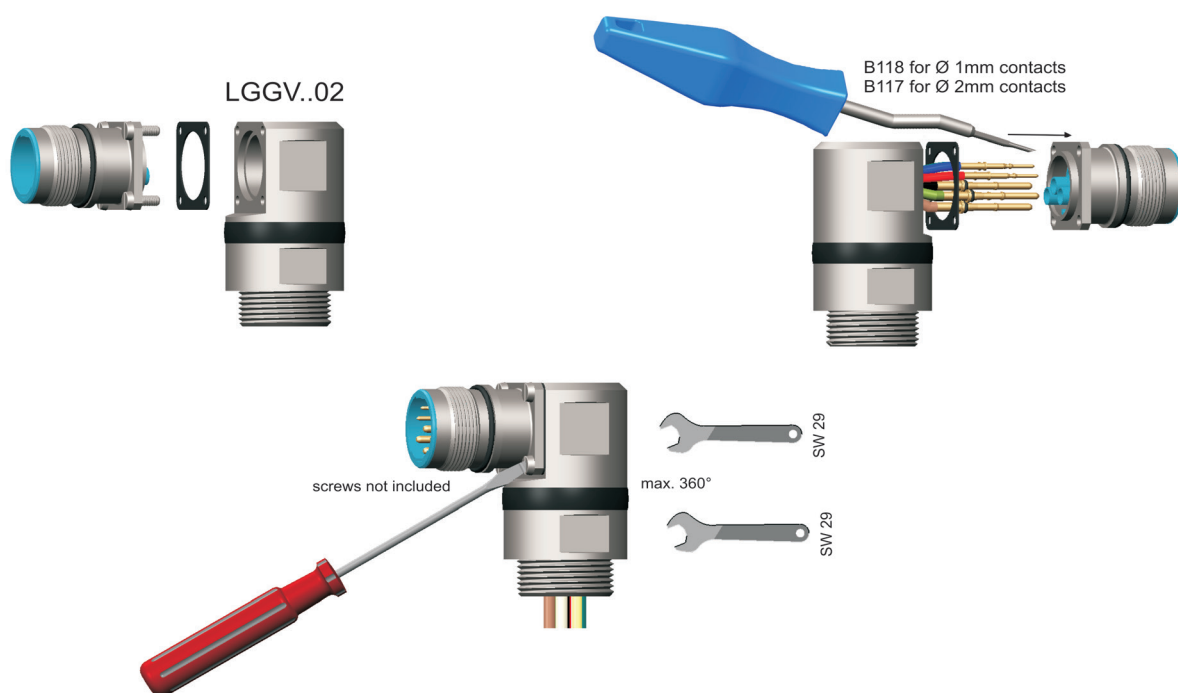
Dismantling



After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Power receptacle LGGV... LEGV... LEKV... LGIV... LGGV..02

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Assembly instructions

Power extension LSNV...

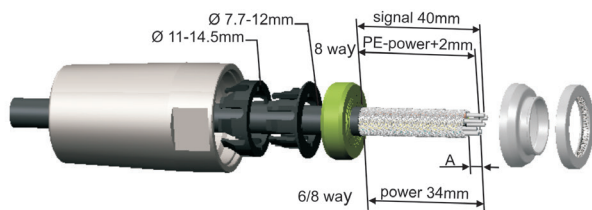
Page 1 of 1

	Stripping Length
	Machined Contacts
A	7 mm

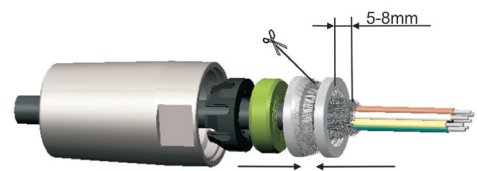


Assembly

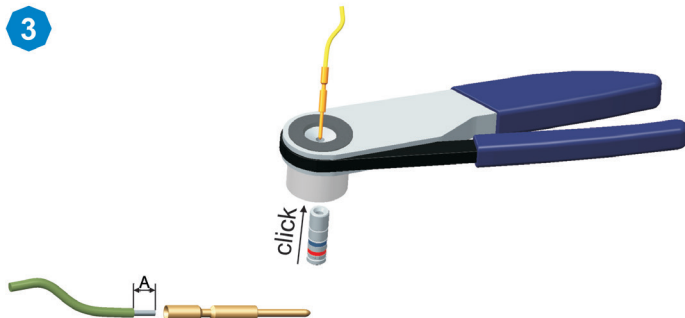
1



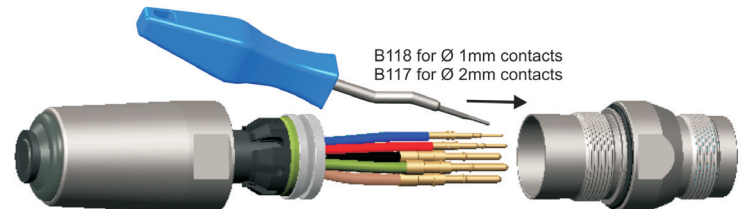
2



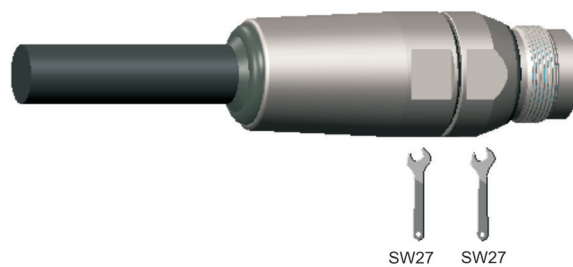
3



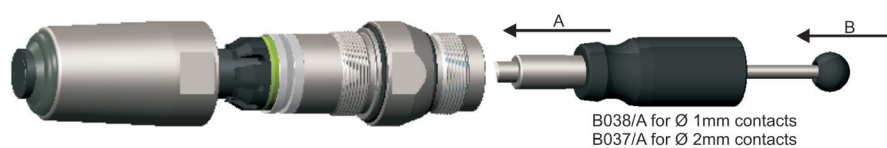
4



5



Dismantling

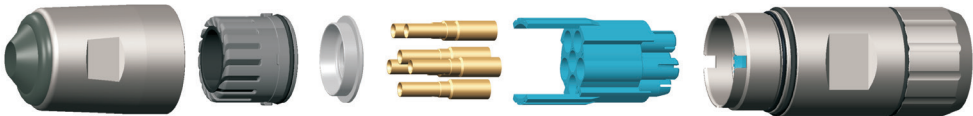


After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Assembly instructions

Power Plug LQNV...

	Stripping Length
	Machined Contacts
A	7 mm



Assembly

1

2

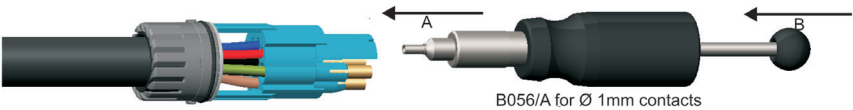
3

4

5

6

Dismantling



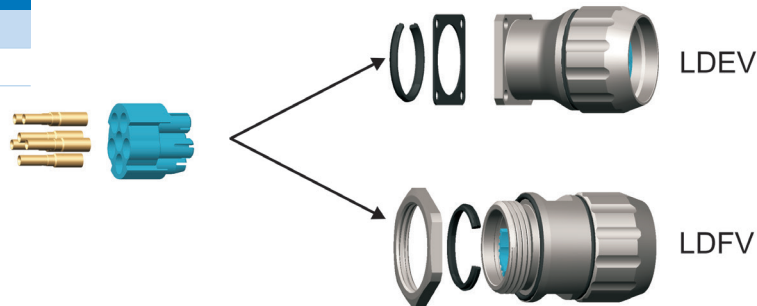
After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Assembly instructions

Power bushing LDEV... LDFV... LDEV...01 LDEV...02

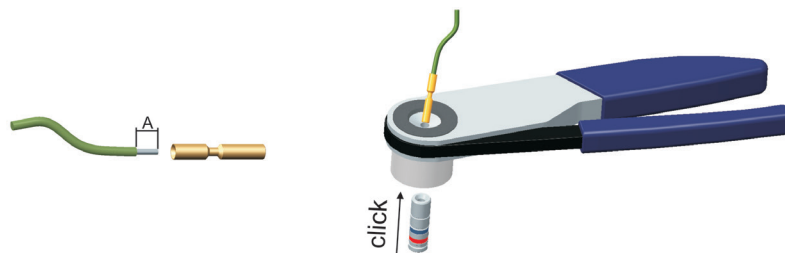
Page 1 of 2

	Stripping Length
	Machined Contacts
A	7 mm

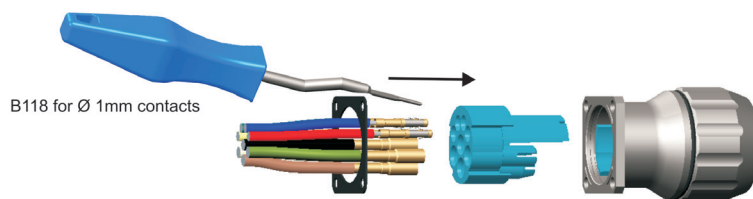


Assembly

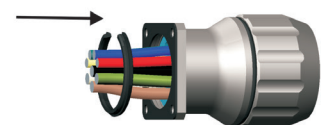
1



2



3



Dismantling

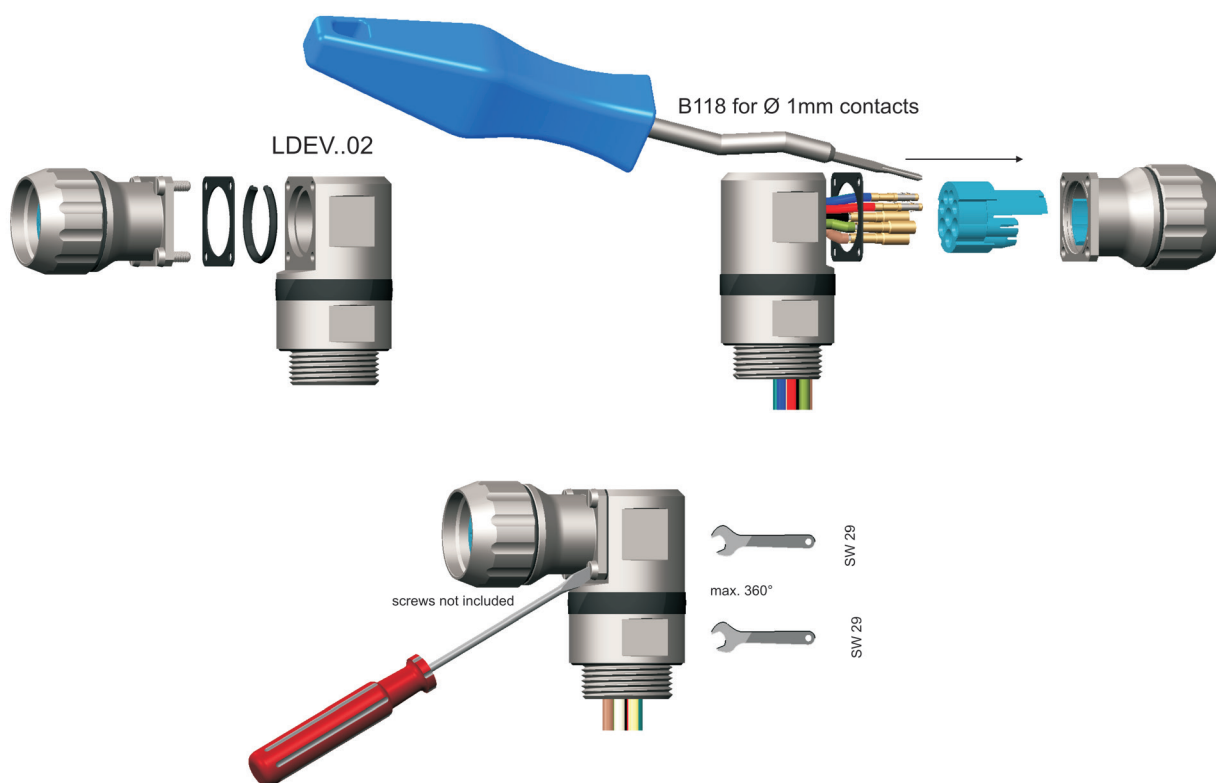
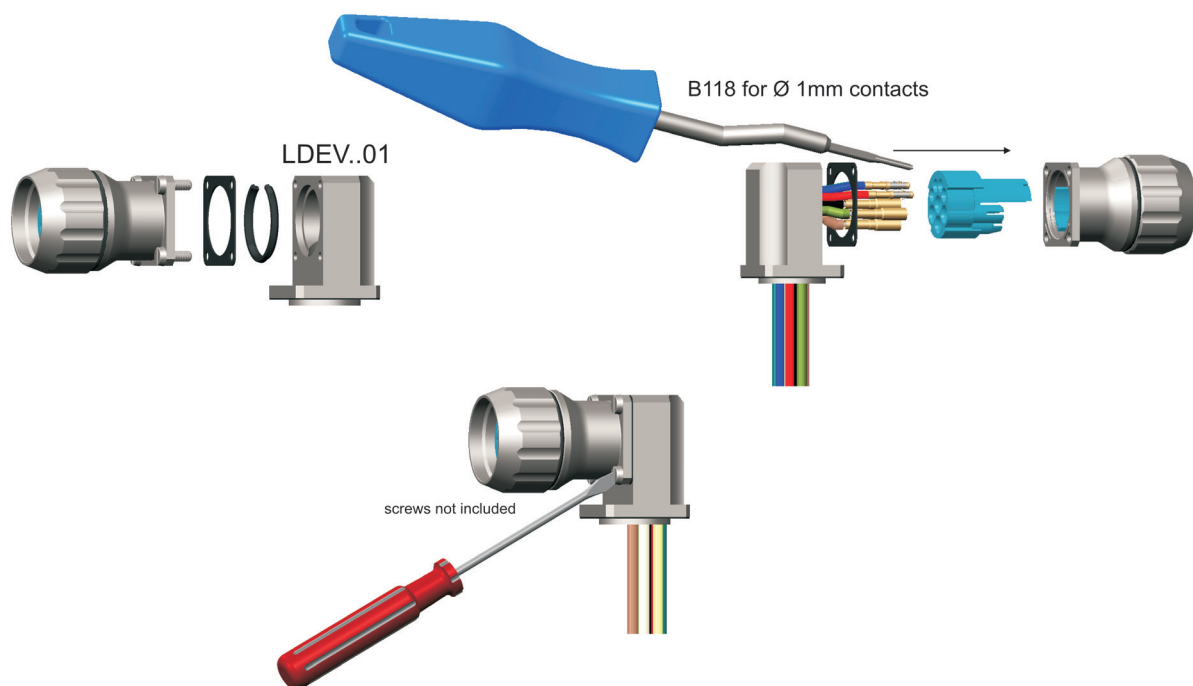


After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

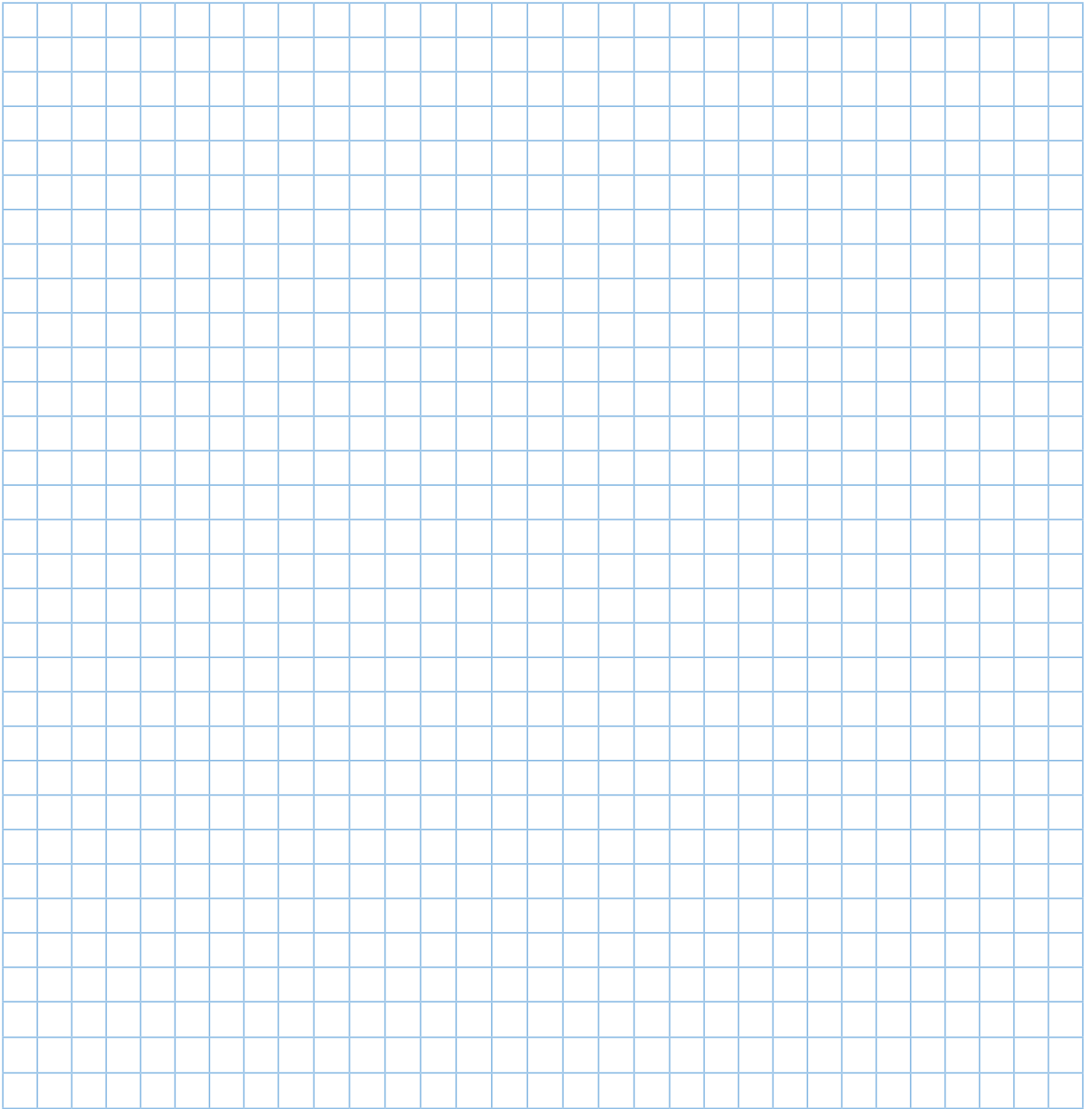
Assembly instructions

Power bushing LDEV... LDFV... LDEV...01 LDEV...02

Page 2 of 2



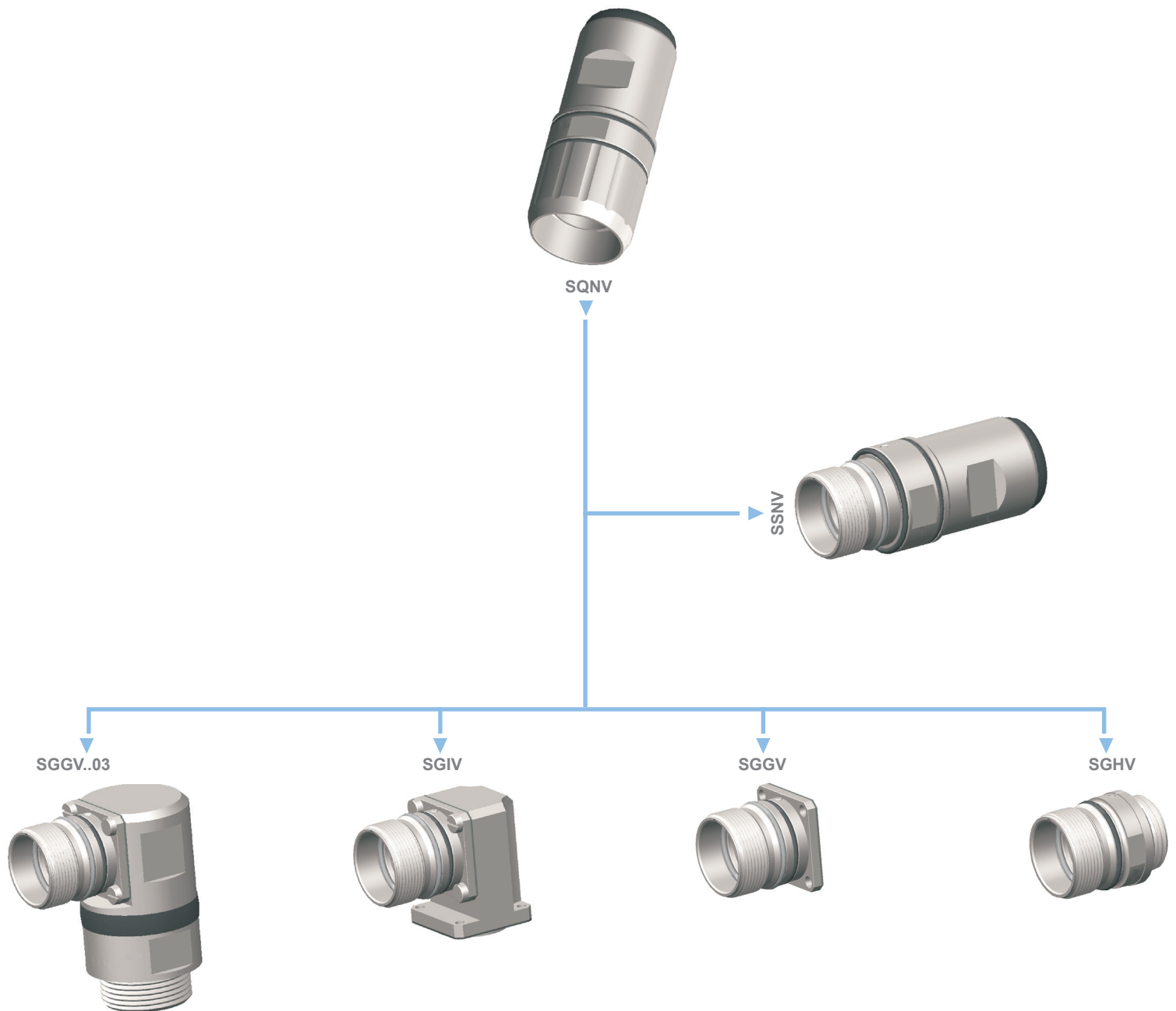
After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)



Notes:

Type Overview

M23 Stainless Steel Signal Connectors Series S



Technical Characteristics

M23 Stainless Steel Signal Connectors Series S

Mechanical

Standards

Contact diameter 6, 7 and 8poles
Contact diameter 9, 12, 16, 17poles

Ø 2mm
Ø 1mm

-
-

Material

Shell
Contacts
Insert
Sealing

V2A (V4A on demand)
CuZn alloy
PA, PBT
FKM, EPDM

-
-
-
-

Material

Shell plating
Machined contacts plating
Stamped contacts plating

passivated
Gold over nickel
Partly gold plated

-
-
-

Electrical

Current rating

9 A (contact Ø 1mm)
8 A (contact Ø 1mm)

EN 61984
USR / UL1977

20 A (contact Ø 2mm)
20 A (contact Ø 2mm)

EN 61984
USR / UL1977

Voltage rating

50 V AC / 120 V DC
125 V

EN 61140
USR / UL1977

Withstanding voltage

2500 V

EN 61984

Contact resistance

<5 mΩ (contact Ø 1mm)
<3 mΩ (contact Ø 2mm)

EN 61984
EN 61984

Insulation resistance

10¹³ Ωcm (contact Ø 1mm)
10¹⁶ Ωcm (contact Ø 2mm)

EN 61984
EN 61984

Overvoltage category

III

EN 61984

Physical and Environmental

Operating temperature range

-40°C ... 125°C
-40°C ... 110°C

EN 61984
UL1977

Storage conditions

-40°C ... 70°C/ min. humidity 40%

-

Environmental level

IP67 (mated)

DIN EN 60529

Contamination level

3 (mated)

EN 61984

Installation altitude

up to 2000 m

EN 61984

Fire & Smoke

Recognition file No E 178462

UL 1977

RoHS

Compliant

-

Consult factory for details



How To Order

M23 Stainless Steel Signal Connectors Series S



1 CONNECTOR FAMILY

S M23 stainless steel circular connectors, Series S

2 CONNECTOR DESIGN

Q N plug with variable shield connection and variable cable clamp
S N extension with variable shield connection and variable cable clamp

G G straight receptacle with flange
G I angled receptacle with flange
G H straight receptacle, threaded connection M 20x1.5

3 PLATING

V passivated

4 INSERTS

0	6	G	6 x Ø 2mm for extensions and receptacles
0	7	C	7 x Ø 2mm for extensions and receptacle
0	9	E	8 x Ø 1mm + 1 x Ø 2mm for extensions and receptacle
0	9	G	6 x Ø 1mm + 3 x Ø 2mm for extensions and receptacle
0	9	J	9 x Ø 1mm for extensions and receptacle
1	2	T	12 x Ø 1mm for extensions and receptacle
1	2	V	12 x Ø 1mm (Code 20°) for extensions and receptacle
1	6	A	16 x Ø 1mm for extensions and receptacle
1	7	G	17 x Ø 1mm for extensions and receptacle

0	6	H	6 x Ø 2mm for plugs
0	7	D	7 x Ø 2mm for plugs
0	9	F	8 x Ø 1mm + 1 x Ø 2mm for plugs
0	9	H	6 x Ø 1mm + 3 x Ø 2mm for plugs
0	9	K	9 x Ø 1mm for plugs
1	2	S	12 x Ø 1mm for plugs
1	2	U	12 x Ø 1mm (Code 20°) for plugs
1	6	B	16 x Ø 1mm for plugs
1	7	H	17 x Ø 1mm for plugs

5 TERMINATION STYLE

N	N	N	N	without contacts, loose machined contacts and stamped HCS contacts on reels to be ordered separately
M	R	R	N	including machined pins, 6/7 x Ø 2mm AWG 18-14
M	R	V	N	including machined pins, 6/7 x Ø 2mm AWG 24-16
M	R	S	R	including machined pins, 8/6 x Ø 1mm AWG 24-18 + 1/3 x Ø 2mm, AWG 18-14
M	R	S	V	including machined pins, 8/6 x Ø 1mm AWG 24-18 + 1/3 x Ø 2mm, AWG 24-16
M	R	W	R	including machined pins, 8/6 x Ø 1mm AWG 30-22 + 1/3 x Ø 2mm, AWG 18-14
M	R	W	V	including machined pins, 8/6 x Ø 1mm AWG 30-22 + 1/3 x Ø 2mm, AWG 24-16
M	R	S	N	including machined pins, 9/12/16/17 x Ø 1mm AWG 24-16
M	R	W	N	including machined pins, 9/12/16/17 x Ø 1mm AWG 30-22
F	R	R	N	including machined sockets, 6/7 x Ø 2mm AWG 20-16
F	R	M	N	including machined sockets, 6/7 x Ø 2mm AWG 18-14
F	R	O	R	including machined sockets, 8/6 x Ø 1mm AWG 24-18 + 1/3 x Ø 2mm, AWG 20-16
F	R	O	M	including machined sockets, 8/6 x Ø 1mm AWG 24-18 + 1/3 x Ø 2mm, AWG 18-14
F	R	P	R	including machined sockets, 8/6 x Ø 1mm AWG 20-16 + 1/3 x Ø 2mm, AWG 20-16
F	R	P	M	including machined sockets, 8/6 x Ø 1mm AWG 20-16 + 1/3 x Ø 2mm, AWG 18-14
F	R	B	R	including machined sockets, 8/6 x Ø 1mm AWG 30-22 + 1/3 x Ø 2mm, AWG 20-16
F	R	B	M	including machined sockets, 8/6 x Ø 1mm AWG 30-22 + 1/3 x Ø 2mm, AWG 18-14
F	R	O	N	including machined sockets, 9/12/16/17 x Ø 1mm AWG 24-18
F	R	P	N	including machined sockets, 9/12/16/17 x Ø 1mm AWG 20-16
F	R	B	N	including machined sockets, 9/12/16/17 x Ø 1mm AWG 30-22

6 CABLE CLAMPING

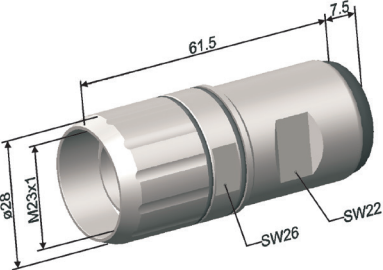
0 0 0 without cable clamp for receptacles
1 6 9 variable clamp for cable Ø 5.5mm to 12mm can be used for all shielded and non shielded cables

7 VERSION NUMBER

0 3 depending on type and special design see detailed description of connector design SGGV

Available Connectors

Signal plugs Series S with crimp contacts

LAYOUT DESCRIPTION PART NUMBER CODE	SHELL TYPE	CONTACT STYLE	TERMINATION CROSS SECTION
<p>Plug with variable shield connection and variable cable clamp.</p> 	SQNV SQNV*	MACHINED PINS	0.75 - 2.5 0.24 - 1.5 0.24 - 1 / 0.75 - 2.5 0.24 - 1 / 0.24 - 1.5 0.05 - 0.34 / 0.75 - 2.5 0.05 - 0.34 / 0.24 - 1.5 0.24 - 1 0.05 - 0.34
		MACHINED SOCKETS	0.5 - 1.5 0.75 - 2.5 0.24 - 1 / 0.5 - 1.5 0.24 - 1 / 0.75 - 2.5 0.34 - 1.5 / 0.5 - 1.5 0.34 - 1.5 / 0.75 - 2.5 0.05 - 0.34 / 0.5 - 1.5 0.05 - 0.34 / 0.75 - 2.5 0.24 - 1 0.24 - 1.5 0.05 - 0.34
		WITHOUT CONTACTS	

* UL-Version

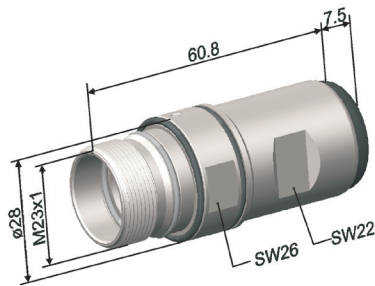
																		CABLE CLAMP
06H (6 x 2)		07D (7 x 2)		09F (8 x 1 / 1 x 2)		09H (6 x 1 / 3 x 2)		09K (9 x 1)		12S (12 x 1)		12U (12 x 1 Code 20°)		16B (16 x 1)		17H (17 x 1)		
06H 06H	MRRN MRVN	07D 07D	MRRN MRVN															
				09F 09F 09F 09F	MRSR MRSV MRWR MRWV	09H 09H 09H 09H	MRSR MRSV MRWR MRWV											
								09K 09K	MRSN MRWN	12S 12S	MRSN MRWN	12U 12U	MRSN MRWN	16B 16B	MRSN MRWN	17H 17H	MRSN MRWN	
06H 06H	FRRN FRMN	07D 07D	FRRN FRMN															
				09F 09F 09F 09F 09F 09F	FROR FROM FRPR FRPM FRBR FRBM	09H 09H 09H 09H 09H 09H	FROR FROM FRPR FRPM FRBR FRBM											
								09K 09K 09K	FRON FRPN FRBN	12S 12S 12S	FRON FRPN FRBN	12U 12U 12U	FRON FRPN FRBN	16B 16B 16B	FRON FRPN FRBN	17H 17H 17H	FRON FRPN FRBN	
								09K	NNNN	12S	NNNN	12U	NNNN	16B	NNNN	17H	NNNN	

169

Signal extensions Series S with crimp contacts

LAYOUT
DESCRIPTION
PART NUMBER CODE

Extension with variable shield connection and variable cable clamp.



SHELL TYPE

CONTACT
STYLETERMINATION
CROSS SECTION

MACHINED PINS

0.75 - 2.5
0.24 - 1.5
0.24 - 1 / 0.75 - 2.5
0.24 - 1 / 0.24 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.05 - 0.34 / 0.24 - 1.5
0.24 - 1
0.05 - 0.34

SSNV
SSNV*










MACHINED SOCKETS

0.5 - 1.5
0.75 - 2.5
0.24 - 1 / 0.5 - 1.5
0.24 - 1 / 0.75 - 2.5
0.34 - 1.5 / 0.5 - 1.5
0.34 - 1.5 / 0.75 - 2.5
0.05 - 0.34 / 0.5 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.24 - 1
0.24 - 1.5
0.05 - 0.34

WITHOUT CONTACTS

* UL-Version

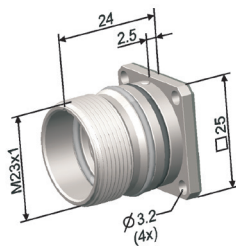
CONTACT ARRANGEMENTS: VIEW MATING FACE

<div><div></div></div>																CABLE CLAMP		
06G (6 x 2)		07C (7 x 2)		09E (8 x 1 / 1 x 2)		09G (6 x 1 / 3 x 2)		09J (9 x 1)		12T (12 x 1)		12V (12 x 1 Code 20°)		16A (16 x 1)		17G (17 x 1)		169
06G	MRRN	07C	MRRN															
06G	MRVN	07C	MRVN															
				09E	MRSR	09G	MRSR											
				09E	MRSV	09G	MRSV											
				09E	MRWR	09G	MRWR											
				09E	MRWV	09G	MRWV											
								09J	MRSN	12T	MRSN	12V	MRSN	16A	MRSN	17G	MRSN	
								09J	MRWN	12T	MRWN	12V	MRWN	16A	MRWN	17G	MRWN	
06G	FRRN	07C	FRRN															
06G	FRMN	07C	FRMN															
				09E	FROR	09G	FROR											
				09E	FROM	09G	FROM											
				09E	FRPR	09G	FRPR											
				09E	FRPM	09G	FRPM											
				09E	FRBR	09G	FRBR											
				09E	FRBM	09G	FRBM											
								09J	FRON	12T	FRON	12V	FRON	16A	FRON	17G	FRON	
								09J	FRPN	12T	FRPN	12V	FRPN	16A	FRPN	17G	FRPN	
								09J	FRBN	12T	FRBN	12V	FRBN	16A	FRBN	17G	FRBN	
								09J	NNNN	12T	NNNN	12V	NNNN	16A	NNNN	17G	NNNN	

Signal receptacles Series S with crimp contacts

LAYOUT
DESCRIPTION
PART NUMBER CODE

Straight receptacle, radial sealing to the device, mounting flange



SHELL TYPE

CONTACT
STYLETERMINATION
CROSS SECTIONSGGV
SGGV*

MACHINED PINS

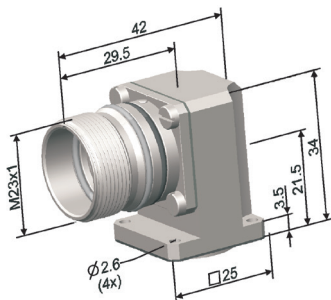
0.75 - 2.5
0.24 - 1.5
0.24 - 1 / 0.75 - 2.5
0.24 - 1 / 0.24 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.05 - 0.34 / 0.24 - 1.5
0.24 - 1
0.05 - 0.34

MACHINED SOCKETS

0.5 - 1.5
0.75 - 2.5
0.24 - 1 / 0.5 - 1.5
0.24 - 1 / 0.75 - 2.5
0.34 - 1.5 / 0.5 - 1.5
0.34 - 1.5 / 0.75 - 2.5
0.05 - 0.34 / 0.5 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.24 - 1
0.24 - 1.5
0.05 - 0.34

WITHOUT CONTACTS

Fixed angled receptacle, radial sealing to the device, mounting flange

SGIV
SGIV*

MACHINED PINS

0.75 - 2.5
0.24 - 1.5
0.24 - 1 / 0.75 - 2.5
0.24 - 1 / 0.24 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.05 - 0.34 / 0.24 - 1.5
0.24 - 1
0.05 - 0.34







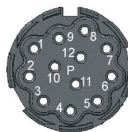


MACHINED SOCKETS

0.5 - 1.5
0.75 - 2.5
0.24 - 1 / 0.5 - 1.5
0.24 - 1 / 0.75 - 2.5
0.34 - 1.5 / 0.5 - 1.5
0.34 - 1.5 / 0.75 - 2.5
0.05 - 0.34 / 0.5 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.24 - 1
0.24 - 1.5
0.05 - 0.34

WITHOUT CONTACTS

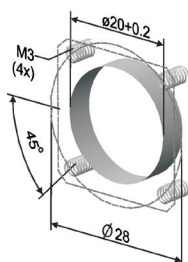
* UL-Version

CONTACT ARRANGEMENTS: VIEW MATING FACE

																		CABLE CLAMP	
06G (6 x 2)		07C (7 x 2)		09E (8 x 1 / 1 x 2)		09G (6 x 1 / 3 x 2)		09J (9 x 1)		12T (12 x 1)		12V (12 x 1 Code 20°)		16A (16 x 1)		17G (17 x 1)			
06G 06G	MRRN MRVN	07C 07C	MRRN MRVN															000	
				09E 09E 09E 09E	MRSR MRSV MRWR MRWV	09G 09G 09G 09G	MRSR MRSV MRWR MRWV												
								09J 09J	MRSN MRWN	12T 12T	MRSN MRWN	12V 12V	MRSN MRWN	16A 16A	MRSN MRWN	17G 17G	MRSN MRWN		
06G 06G	FRRN FRMN	07C 07C	FRRN FRMN																
				09E 09E 09E 09E 09E 09E	FROR FROM FRPR FRPM FRBR FRBM	09G 09G 09G 09G 09G 09G	FROR FROM FRPR FRPM FRBR FRBM												
								09J 09J 09J	FRON FRPN FRBN	12T 12T 12T	FRON FRPN FRBN	12V 12V 12V	FRON FRPN FRBN	16A 16A 16A	FRON FRPN FRBN	17G 17G 17G	FRON FRPN FRBN		
06G	NNNN	07C	NNNN	09E	NNNN	09G	NNNN	09J	NNNN	12T	NNNN	09G	NNNN	09J	NNNN	17G	NNNN		
06G 06G	MRRN MRVN	07C 07C	MRRN MRVN																000
				09E 09E 09E 09E	MRSR MRSV MRWR MRWV	09G 09G 09G 09G	MRSR MRSV MRWR MRWV												
								09J 09J	MRSN MRWN	12T 12T	MRSN MRWN	12V 12V	MRSN MRWN	16A 16A	MRSN MRWN	17G 17G	MRSN MRWN		
06G 06G	FRRN FRMN	07C 07C	FRRN FRMN																
				09E 09E 09E 09E 09E 09E	FROR FROM FRPR FRPM FRBR FRBM	09G 09G 09G 09G 09G 09G	FROR FROM FRPR FRPM FRBR FRBM												
								09J 09J 09J	FRON FRPN FRBN	12T 12T 12T	FRON FRPN FRBN	12V 12V 12V	FRON FRPN FRBN	16A 16A 16A	FRON FRPN FRBN	17G 17G 17G	FRON FRPN FRBN		
								09J	NNNN	12T	NNNN	12V	NNNN	16A	NNNN	17G	NNNN		

Drilling drawings

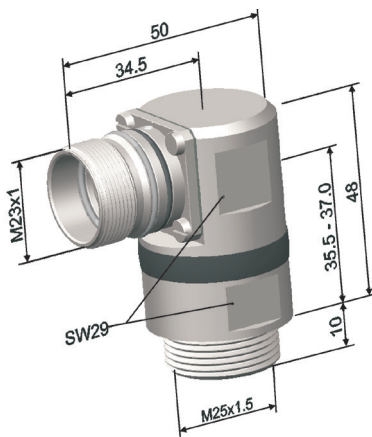
SGGV, SGIV



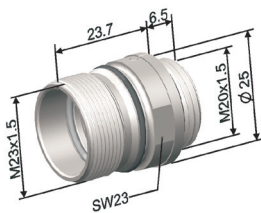
Signal receptacles Series S with crimp contacts

LAYOUT
DESCRIPTION
PART NUMBER CODE

Straight receptacle, radial sealing to the device, mounting flange



Fixed angled receptacle, radial sealing to the device, mounting flange



SHELL TYPE

CONTACT
STYLETERMINATION
CROSS SECTIONSGGV
SGGV*

MACHINED PINS

0.75 - 2.5
0.24 - 1.5
0.24 - 1 / 0.75 - 2.5
0.24 - 1 / 0.24 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.05 - 0.34 / 0.24 - 1.5
0.24 - 1
0.05 - 0.34

MACHINED SOCKETS

0.5 - 1.5
0.75 - 2.5
0.24 - 1 / 0.5 - 1.5
0.24 - 1 / 0.75 - 2.5
0.34 - 1.5 / 0.5 - 1.5
0.34 - 1.5 / 0.75 - 2.5
0.05 - 0.34 / 0.5 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.24 - 1
0.24 - 1.5
0.05 - 0.34

WITHOUT CONTACTS

SGHV
SGHV*

MACHINED PINS

0.75 - 2.5
0.24 - 1.5
0.24 - 1 / 0.75 - 2.5
0.24 - 1 / 0.24 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.05 - 0.34 / 0.24 - 1.5
0.24 - 1
0.05 - 0.34





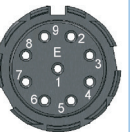
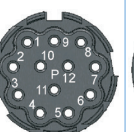
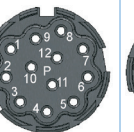
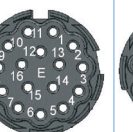
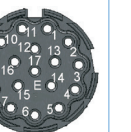
MACHINED SOCKETS

0.5 - 1.5
0.75 - 2.5
0.24 - 1 / 0.5 - 1.5
0.24 - 1 / 0.75 - 2.5
0.34 - 1.5 / 0.5 - 1.5
0.34 - 1.5 / 0.75 - 2.5
0.05 - 0.34 / 0.5 - 1.5
0.05 - 0.34 / 0.75 - 2.5
0.24 - 1
0.24 - 1.5
0.05 - 0.34

WITHOUT CONTACTS

* UL-Version

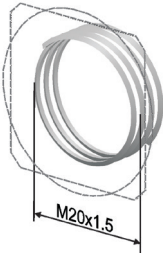
CONTACT ARRANGEMENTS: VIEW MATING FACE

																		CABLE CLAMP	
06G (6 x 2)		07C (7 x 2)		09E (8 x 1 / 1 x 2)		09G (6 x 1 / 3 x 2)		09J (9 x 1)		12T (12 x 1)		12V (12 x 1 Code 20°)		16A (16 x 1)		17G (17 x 1)			
06G	MRRN	07C	MRRN		09E MRSR 09E MRSV 09E MRWR 09E MRWV	09G MRSR 09G MRSV 09G MRWR 09G MRWV												000 03	
06G	MRVN	07C	MRVN																
06G	FRRN	07C	FRRN		09E FROR 09E FROM 09E FRPR 09E FRPM 09E FRBR 09E FRBM	09G FROR 09G FROM 09G FRPR 09G FRPM 09G FRBR 09G FRBM													000
06G	FRMN	07C	FRMN																
06G	NNNN	07C	NNNN	09E	NNNN	09G	NNNN	09J	NNNN	12T	NNNN	09G	NNNN	09J	NNNN	17G	NNNN		
06G	MRRN	07C	MRRN		09E MRSR 09E MRSV 09E MRWR 09E MRWV	09G MRSR 09G MRSV 09G MRWR 09G MRWV													
06G	MRVN	07C	MRVN																
06G	FRRN	07C	FRRN		09E FROR 09E FROM 09E FRPR 09E FRPM 09E FRBR 09E FRBM	09G FROR 09G FROM 09G FRPR 09G FRPM 09G FRBR 09G FRBM												000	
06G	FRMN	07C	FRMN																
06G	NNNN	07C	NNNN	09E	NNNN	09G	NNNN	09J	NNNN	12T	NNNN	12V	NNNN	16A	NNNN	17G	NNNN		

Drilling drawings






SGGV..03

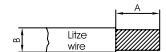
SGHV



Contacts

Machined Pins Series S






Type	R	V	S	T	W
Contact diameter [mm]	2	2	1	1	1
Part number and layout					
	021.310.1020 	021.356.1020 	021.311.1020 	021.373.1020 	021.402.1020 
Termination cross section* [mm²] AWG	0.75 - 2.5 (18 - 14)	0.34 - 1.5 (24 - 16)	0.24 - 1.0 (24 - 18)	0.24 - 1.0 (24 - 18)	0.05 - 0.34 (30 - 22)
Max. nominal current [A] (20°C) at max. cross section	20	20	9	9	9
Strip length (A) [mm]	~ 5.5	~ 5.5	(B = <Ø 2.1) ~ 4 (B = >Ø 2.1) ~ 6	(B = <Ø 2.1) ~ 4 (B = >Ø 2.1) ~ 6	~ 5
Contact resistance [mΩ]	<3	<3	<5	<5	<5
Max. conductor diameter [mm]	2.2	1.8	1.2	1.2	0.8
Max. insulation diameter [mm] for insulation crimp	-	-	2.1	2.1	-



*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

Tooling					
Hand crimping tool	B151	B151	B150	B150	B150
Positioner	B201	B201	B055/A	B055/A	B055/A
Insertion tool	-	-	-	-	-
Extraction tool	-	-	-	-	-

Machined Sockets Series S





Type	R	M	O	P	B
Contact diameter [mm]	2	2	1	1	1
Part number and layout					
	020.315.1020 	020.263.1020 	020.256.1020 	020.328.1020 	020.353.1020 
Termination cross section* [mm²] AWG	0.5 - 1.5 (20 - 16)	0.75 - 2.5 (18 - 14)	0.24 - 1.0 (24 - 18)	0.5 - 1.5 (20 - 16)	0.05 - 0.34 (30 - 22)
Max. nominal current [A] (20°C) at max. cross section	20	20	9	9	9
Strip length (A) [mm]	~ 5.5	~ 5.5	(B = <Ø 2.1) ~ 4 (B = >Ø 2.1) ~ 6	~ 5	~ 5
Contact resistance [mΩ]	<3	<3	<5	<5	<5
Max. conductor diameter [mm]	1.7	2.2	1.2	-	-
Max. insulation diameter [mm] for insulation crimp	-	-	2.1	-	-



*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

Tooling					
Hand crimping tool	B151	B151	B150	B151	B150
Positioner	B201	B201	B055/A	B257	B055/A
Insertion tool	-	-	-	-	-
Extraction tool	-	-	-	-	-

Stamped HCS™ Pins Series S

Type	A	B	C	D
Contact diameter [mm]	1	1	1	1
Part number and layout				
	021.001005.1025 	021.001006.1025 	021.001007.1025 	021.001008.1025 
Termination cross section* [mm²] AWG	0.03 - 0.08 (32 - 28)	0.08 - 0.2 (28 - 24)	0.2 - 0.5 (24 - 20)	0.75 - 1.0 (18)
Max. nominal current [A] (20°C) at max. cross section	4	6	8	8
Strip length (A) [mm]	~ 3	~ 3	~ 3	~ 3
Contact resistance [mΩ]	<5	<5	<5	<5
9000 pcs. big reel part number	021.001005.1025	021.001006.1025	021.001007.1025	021.001008.1025
300 pcs. small reel part number	021.001005.1025.A2	021.001006.1025.A2	021.001007.1025.A2	021.001008.1025.A2





*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

Tooling				
Hand crimping tool for small reels	B287/32-28	B287/28-24	B287/24-20	B287/0.75-1
Applicator for crimping machine	B288/32-28	B288/28-24	B288/24-20	B288/0.75-1

Schäfer **

**acc. to AMP standard

Stamped HCS™ Sockets Series S

Type	A	B	C	D
Contact diameter [mm]	1	1	1	1
Part number and layout				
	020.000376.2000 	020.000377.2000 	020.000378.2000 	020.000379.2000 
Termination cross section* [mm²] AWG	0.03 - 0.08 (32 - 28)	0.08 - 0.2 (28 - 24)	0.2 - 0.5 (24 - 20)	0.75 - 1.0 (18)
Max. nominal current [A] (20°C) at max. cross section	4	6	8	8
Strip length (A) [mm]	~ 3	~ 3	~ 3	~ 3
Contact resistance [mΩ]	<5	<5	<5	<5
9000 pcs. big reel part number	020.000376.2000	020.000377.2000	020.000378.2000	020.000379.2000
300 pcs. small reel part number	020.000376.2000.A2	020.000377.2000.A2	020.000378.2000.A2	020.000379.2000.A2

*Mentioned crimp ranges are recommendations and only valid with flexible wires H05(07)V-K [mm²] acc. to DIN VDE 0281/0282 pp and with non compressed standard cables and wires acc. to DIN VDE 0295. It is possible that due to another structure of wires further cross sections and currents can be processed.

Tooling				
Hand crimping tool for small reels	B287/32-28	B287/28-24	B287/24-20	B287/0.75-1
Applicator for crimping machine	B288/32-28	B288/28-24	B288/24-20	B288/0.75-1

Schäfer **

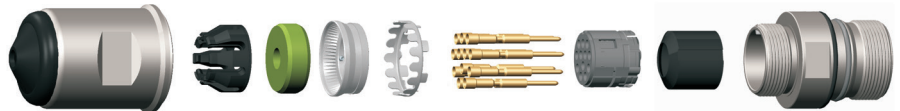
**acc. to AMP standard

Assembly instructions

Signal extension SSNV...

Page 1 of 1

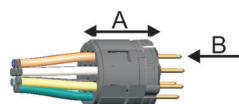
	Stripping Length	
	Machined Contacts	Stamped Contacts
A	see catalogue page 32 - 33	~3 mm



Assembly

-
-
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Dismantling

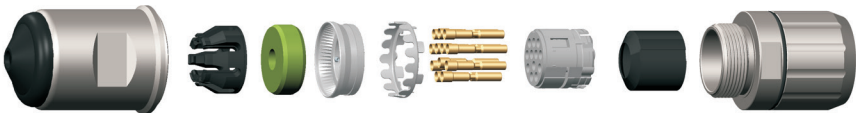


After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

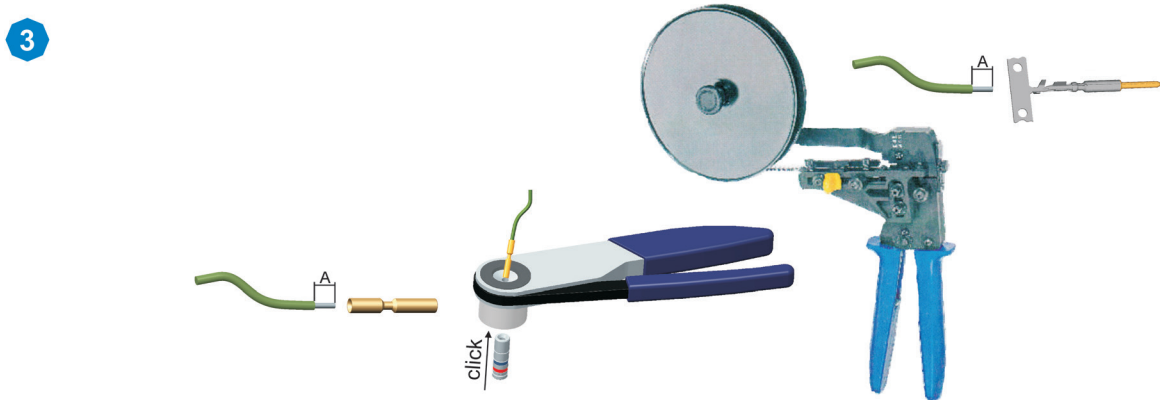
Assembly instructions

Signal plug SQNV.....

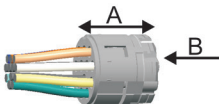
	Stripping Length	
	Machined Contacts	Stamped Contacts
A	see catalogue page 32 - 33	~3 mm



Assembly



Dismantling



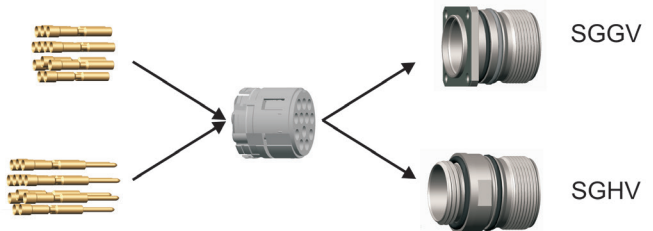
After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Assembly instructions

Signal receptacles SGGV... SGHV... SGIV... SGGV...03

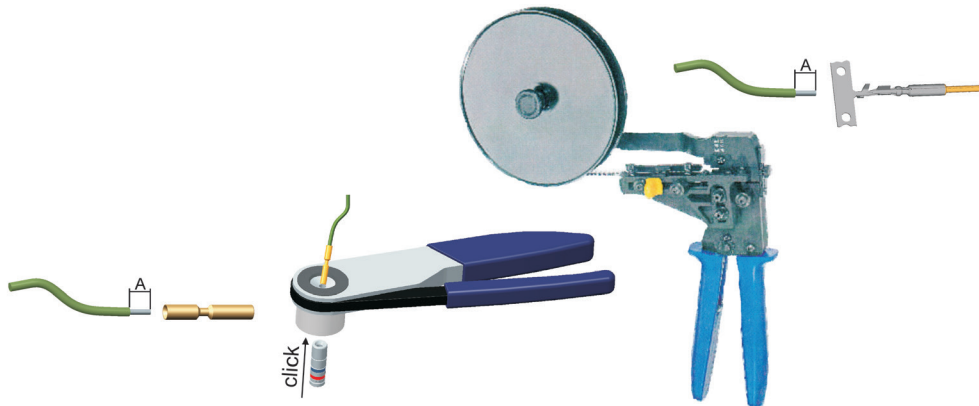
Page 1 of 2

	Stripping Length	
	Machined Contacts	Stamped Contacts
A	see catalogue page 32 - 33	~3 mm

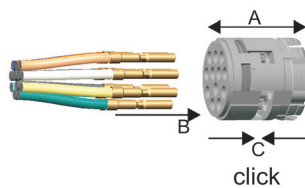


Assembly

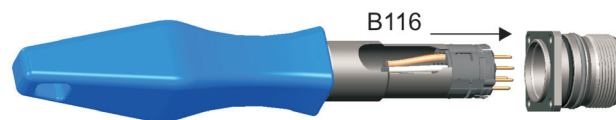
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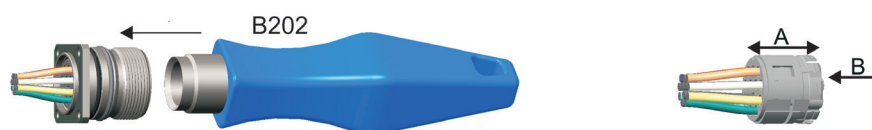
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3



Dismantling

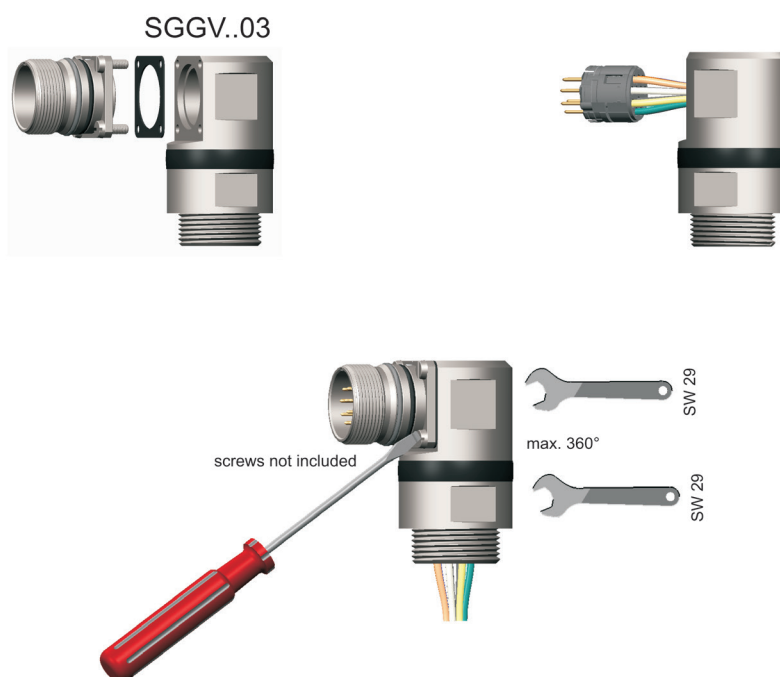
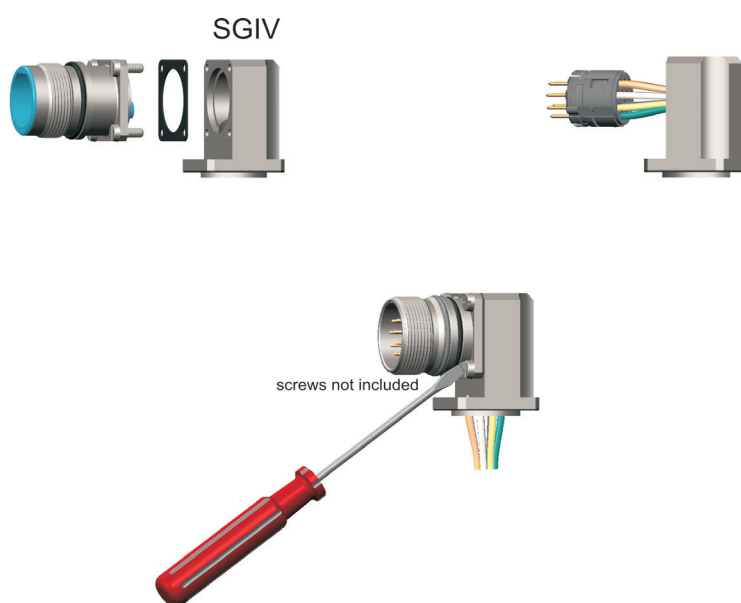


After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Assembly instructions

Signal receptacles SGGV... SGHV... SGIV... SGGV...03





Page 2 of 2






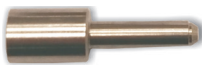

After assembly the connector has to be checked for the functions of the safety precautions (according to EN 60204-1, VDE 0113 Teil 1)

Tools


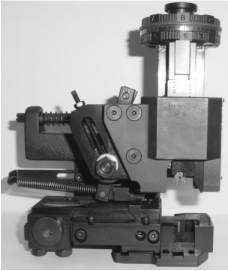
Machined Contacts

Hand crimping tool	Positioner	Part number
 <p>B150</p>		B055/A B201 B245 B257 B297 B305 B306
Hand crimping tool	Master Gauge	Part number
 <p>B151</p>		B190 B230

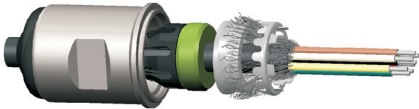
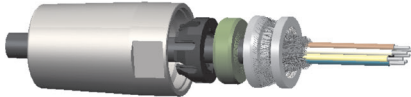
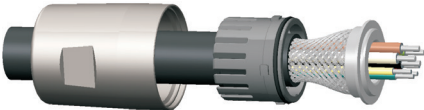
Insertion and Extraction Tools

Insertion tool	Extraction tool	Part number
 <p>B117</p>	 <p>B132</p>	
 <p>B118</p>	 <p>B037/10a</p>	
	 <p>B038/10</p>	

Stamped Contacts

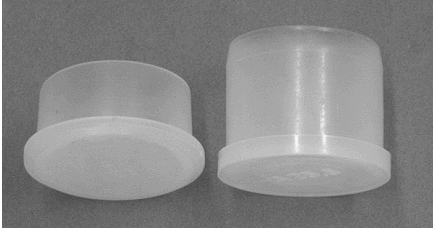


Hand crimping tools with feeder line for HCS™ Ø 1mm	Termination Cross Section	Part number
<div></div> <p>B287/..</p>	0.032 - 0.08mm² (AWG 32-28) 0.08 - 0.20mm² (AWG 28-24) 0.20 - 0.52mm² (AWG 24-20) 0.75 - 1.00mm²	B287/32-28 B287/28-24 B287/24-20 B287/0.75-1.00
Applicators for crimping machines with feeder line	Termination cross section	Part number
<div></div> <p>AMP / Schäfer ESP1000</p>	0.032 - 0.08mm² (AWG 32-28) 0.08 - 0.20mm² (AWG 28-24) 0.20 - 0.52mm² (AWG 24-20) 0.75 - 1.00mm²	B288/32 - 28 B288/28 - 24 B288/24 - 20 B288/0.75 - 1.00

Cable Clamps

Cable clamp No. 169 for SSNV/SQNV	Clamp range
	with reducing sleeve from 5.5 - 8.5mm without reducing sleeve from 8-12mm can be used for shielded and non shielded cables
Cable clamp No. 170 for LSNV	Clamp range
	with reducing sleeve from 7.7 - 12mm without reducing sleeve from 11-14.5mm can be used for shielded and non shielded cables
Cable clamps No. 305/306/307 for LQNV	Clamp range
	.305 cable diameter 5 - 9 mm .306 cable diameter 9 - 15 mm .307 cable diameter 16 mm can be used for shielded and non shielded cables

Assessories

Caps

Thread Protection Caps	Part number	
	031.287.1000 (short) 031.405.1000 (long)	
Dust Shield Caps	Part number	Description
	C/BEL/1	dust shield cap for extension and receptacle
	C/BEL/2	identical to C/BEL/1 with chain 75mm
	C/BEL/7	identical to C/BEL/1 with chain 120mm
	C/BEL/5	dust shield cap for power plug and panel feed through with chain 120mm
	C/BEL/6	dust shield cap for signal plug with chain 120mm

CuZn alloy dust shield caps, nickel plated. Stainless steel quality on demand

Disclaimer 2018

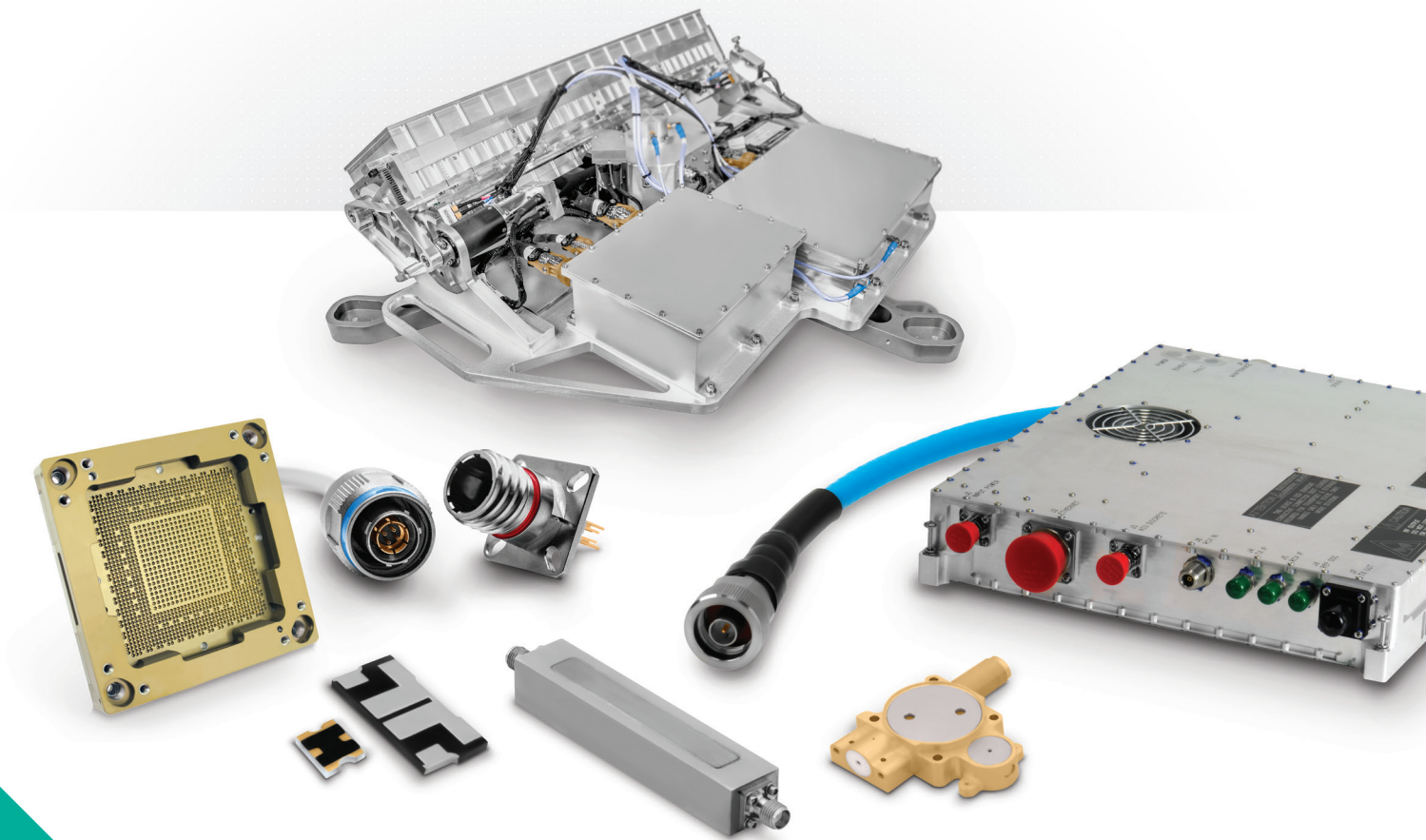
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