PHŒNIX CONTACT
INSPIRING INNOVATIONS

rde Connects

S S R   Series

unshielded Connectors M23
the stainless steel program

Connectors M23   Series SSR
Technical Data

Shell material

Machined components: Stainless Steel

Cable entry: max. 19 mm

Insulator

Connector inserts: Thermoplastic polyester (PBT), Polyamid (PA66),

Contacts

Contact material: Copper-Zinc alloy (CuZn)
Contact plating: Nickel (Ni) with gold (Au) passivated
Contact termination: Solder cup, crimp type, screw type, dip solder

Sealing

Sealing rings: FKM viton
Gaskets: FKM viton

Temperature

Temperature (long term) Celsius: - 40 °C up to +125°C
Temperature (long term) Fahrenheit: - 40 °F up to + 257 °F

Mating

Female coupling nuts: M23 screw locking
Male receptacles: M23 screw locking

Mating cycles: Standard min. 50
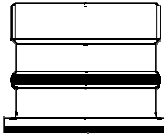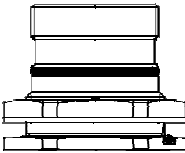
Protection
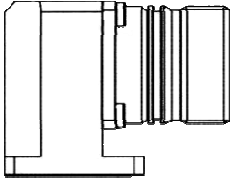
Protection class :   IP 67 (mated) depends on which cable gland is used

Number of positions	6,7	9 (8+1)	9 (6+3)	12	16	17	19 (16+3)
Number of contacts	6,7	8 1	6 3	12	16	17	16 3
Contact dia. (mm Ø)	2	1 2	1 2	1	1	1	1 1.5
Rated current at 25°C (A)	20	8 20	8 20	8	8	8	8 10
Rated voltage (V)	250	150	150	150	150	150	150
Test voltage (Volt AC)	2,500	1,500	1,500	1,500	1,500	1,500	1,500
Overvoltage category DIN EN 61984-2001	II	II	II	II	II	II	II
Insulation resistance (Ω)	$\geq 10^{16}$	$\geq 10^{16}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$
Contact resistance (mΩ)	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
Pollution degree acc. to IEC 664-1	2 (3[1])	2 (3[1])	2 (3[1])	2 (3[1])	2 (3[1])	2 (3[1])	2 (3[1])

stainless steel

Bulkhead Connectors M23   Series SSR
Shell styles 2, H, 6, 6-USA, RA
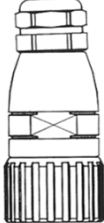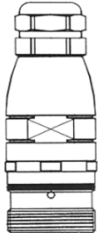
rde Connects

SSR-xxxxxxx2300 page C-H-05	SSR-xxxxxxxH000 page C-H-06	SSR-xxxxxxx6x00 page C-H-07
front mount, straight square flange, gasket flange with holes male thread M 23	rear mount, straight round flange, O-ring hex nut from the front male thread M 23	front mount, straight round flange, gasket - O-ring and/or lock nut from the back male thread M 23
style 23	**style H0**	**style 6**
SSR-xxxxxxx6x00 page C-H-08	SSR-xxxxxxxRA00 page C-H-09	
front mount, straight round flange, gasket lock nut from the back male thread M 23	front mount, right angled square flange, gasket flange with holes male thread M 23	
style 6 USA flange	**style RA**	

Cable Connectors M23   Series SSR
Shell styles 1, 7

| SSR-xxxxxxx1xxx page C-H-15	SSR-xxxxxxx7xxx page C-H-16	
Cable connector, straight with female coupling nut cable entry max. 19 mm unshielded	cable connector, straight with male thread cable entry max. 19 mm unshielded	
style 1	**style 7**	

Stainless Steel

Bulkhead Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
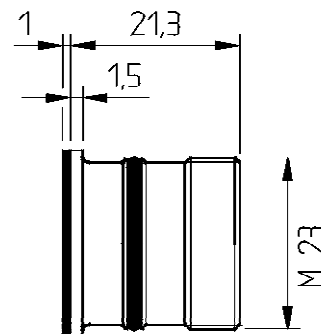## Shell style 2 ● front mount receptacle ●

rde
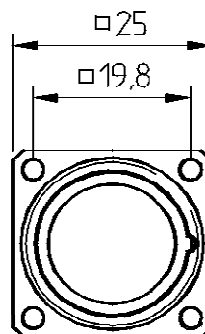*Connects*

mounting dimensions	connector dimensions

□19,8±0,1

mounting hole

ø20+0,1

□25
□19,8

1   21,3
1,5

M 23
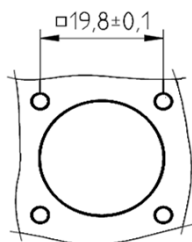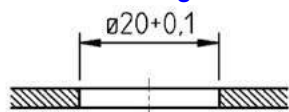
Flat gasket

Caps and accessories: pages B-H-01…
Mounting tools: pages B-E-01…
Assembly instructions: page B-D-03
Crimp tools for contacts: pages B-B-01…
Crimp contacts: pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	2	3	0	0
with black O-ring	**SSR-**											
with red O-ring	**SSRR-**											
with yellow O-ring	**SSRY-**											
with green O-ring	**SSRG-**											
with blue O-ring	**SSRB-**											

Here please fill in the first
7 digits of your desired
connector insert
(6-19 positions)
from page B-A-01
to page B-A-29

Bulkhead Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
Shell style H ● rear mount receptacle ●

rde Connects

mounting dimensions	connector dimensions

O-Ring axial M25

24+0,1

Ø25+0,1

max. 6,5mm

M 23x1

(28,8)

26,3

O-Ring

2,5

30

ø33

include washer and nut

Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-03
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	H	0	0	0
with black O-ring	SSR-											
with red O-ring/washer	SSRR-											
with yellow O-ring/washer	SSRY-											
with green O-ring/washer	SSRG-											
with blue O-ring/washer	SSRB-											

Here please fill in the first
7 digits of your desired
connector insert
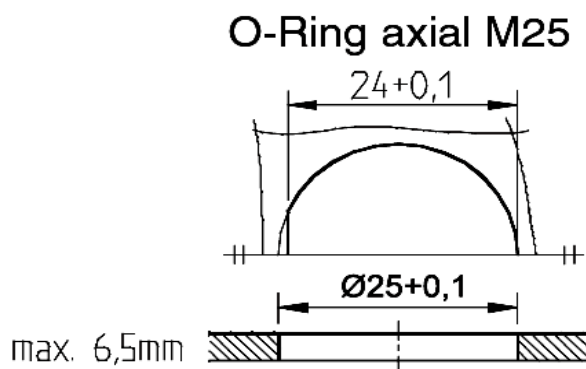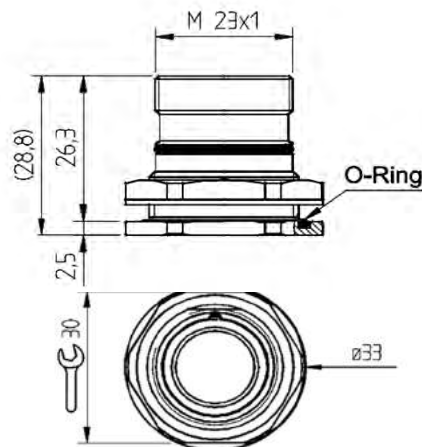(6-19 positions)
from page B-A-01
to page B-A-29

Stainless Steel

Bulkhead Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
Shell style 6 • front mount receptacle •

rde Connects

mounting dimensions

19+0,1

ø20+0,1

max. 3,5mm ▨▨▨ Gasket

max. 4,5mm ▨▨▨ O-Ring

connector dimensions

M 23x1

20,3

ø26

3,5

⌇24

Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-03
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	6	x	x	x	

with black O-ring	**SSR-**
with red O-ring	**SSRR-**
with yellow O-ring	**SSRY-**
with green O-ring	**SSRG-**
with blue O-ring	**SSRB-**

Here please fill in the first
7 digits of your desired
connector insert
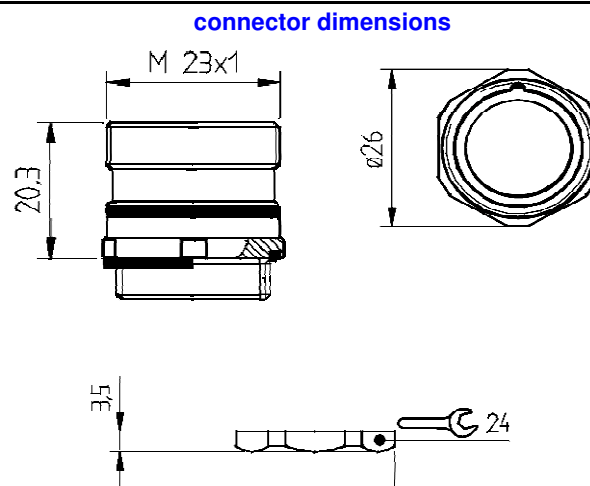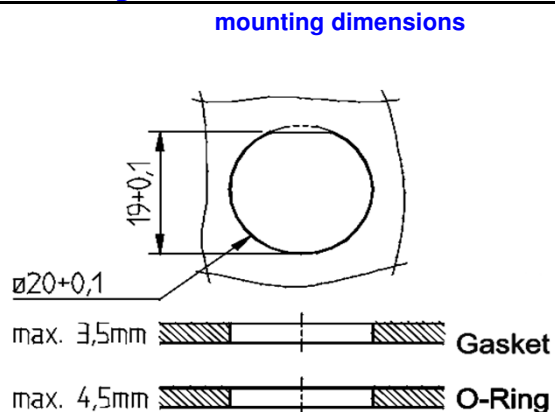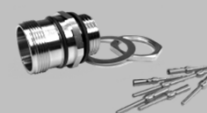(6-19 positions)
from page B-A-01
to page B-A-29

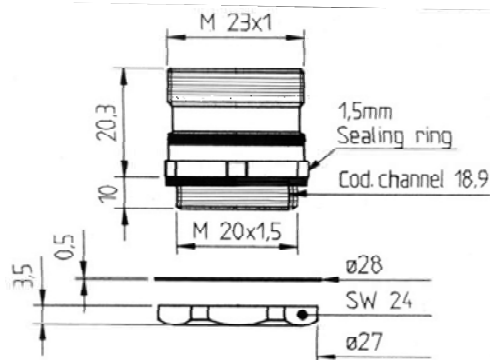| 0 | S | R | M20, 6 mm thread, seal ring |
0	W	W	same, with washer
0	0	0	same, with washer and nut
R	S	R	M20, 10 mm thread, seal ring
R	W	W	same, with washer
R	0	0	same, with washer and nut

f.e. SSR-xxxxxxx6R00

Bulkhead Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
Shell style 6R ● front mount receptacle with assembled US flange ●

rde Connects

connector dimensions

M 23x1

20.3

10

0.5

3.5

1,5mm Sealing ring

Cod. channel 18,9

M 20x1,5

ø28

SW 24

ø27

connector material: stainless steel

rear view   front view

side view

flange thickness: 2.4 mm
stainless steel

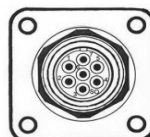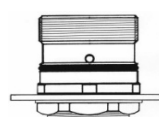|	
Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-03
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

| Part Number	SSR-	X	X	X	X	X	X	X	6	R	X	X	-	G
with black O-ring	**SSR-**													
with red O-ring	**SSRR-**													
with yellow O-ring	**SSRY-**													
with green O-ring	**SSRG-**													
with blue O-ring	**SSRB-**													

Here please fill in the first
7 digits of your desired
connector insert
(6-19 positions)
from page B-A-01
to page B-A-29

Please use this affix
if you need the US
flange with a gasket.

1 6	Flange size 16
1 8	Flange size 18
2 0	Flange size 20
2 2	Flange size 22
2 4	Flange size 24
2 8	Flange size 28
3 2	Flange size 32
3 6	Flange size 36
4 0	Flange size 40
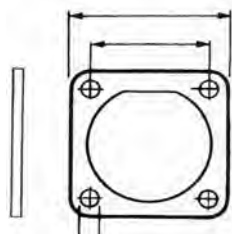
| Flange size	Outside square	Distance holes	Bore holes
16	32.2 mm	24.6 mm	3.2 mm
18	35.0 mm	27.0 mm	3.2 mm
20	38.0 mm	29.4 mm	3.2 mm
22	41.0 mm	31.8 mm	3.2 mm
24	44.5 mm	34.9 mm	3.7 mm
28	50.8 mm	39.7 mm	3.7 mm
32	57.0 mm	44.5 mm	4.3 mm
36	63.5 mm	49.2 mm	4.3 mm
40	70.2 mm	55.6 mm	4.3 mm

Stainless Steel

Bulkhead Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
Shell style RA ● front mount receptacle ●

rde *Connects*

mounting dimensions	connector dimensions

□19,8±0,1
ø2,7/ø3,2
ø20+0,1

40,0 mm

39.8 mm
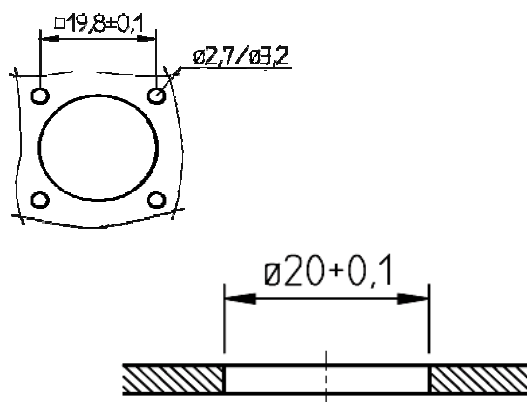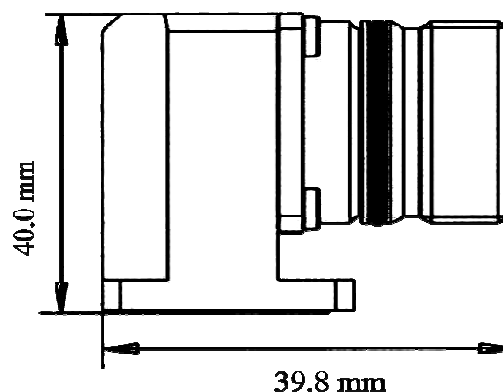
Connector with O-ring and gasket

Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-03
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	R	A	x	x

with black O-ring	**SSR-**
with red O-ring	**SSRR-**
with yellow O-ring	**SSRY-**
with green O-ring	**SSRG-**
with blue O-ring	**SSRB-**

Here please fill in the first
7 digits of your desired
connector insert
(6-19 positions)
from page B-A-01
to page B-A-29

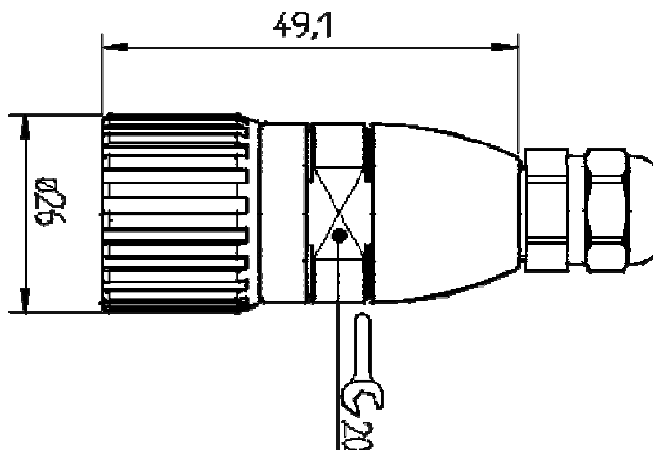| **0**	**0**	with 4 holes 2.7 mm Ø
0	**1**	with 4 holes 3.2 mm Ø

Stainless Steel

Non shielded Cable Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with male thread
Shell style 1

49,1

⌀26

Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-05
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	1	x	x	x	

with S/S steel coupling	SSR-
with red coupling nut	SSRR-
with yellow coupling nut	SSRY-
with green coupling nut	SSRG-
with blue coupling nut	SSRB-

Here please fill in the first
7 digits of your desired
connector insert
(6-19 positions)
from page B-A-01
to page B-A-29

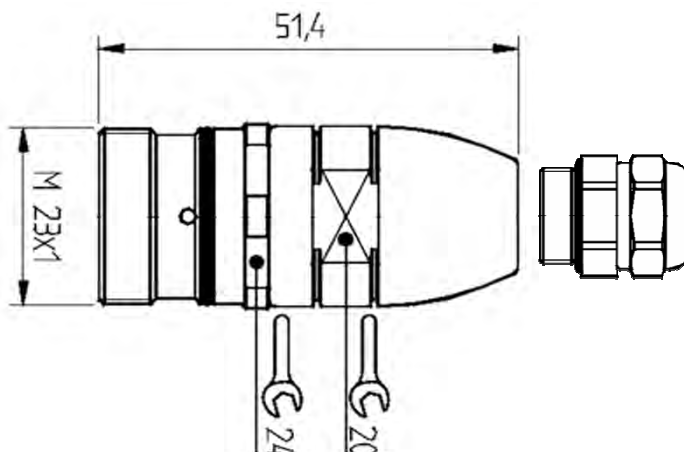| E	1	6	without cable gland
			endbell threaded M16x1.5
E	2	0	without cable gland
			endbell threaded M20x1.5
M	1	6	with IP 68 cable gland
			M16, cable entry 5-10 mm
M	2	0	with IP 68 cable gland
			M20, cable entry 9-14 mm
M	2	5	with IP 68 cable gland
			M25, cable entry 13-19 mm
			(with adaptor)

f.e. SSR-xxxxxxx1M20

Non shielded Cable Connectors M23 Series SSR
fits all UC/RC/SSR Connectors with female coupling nut
Shell style 7

51,4

M 23x1

24   20

Caps and accessories:	pages B-H-01…
Mounting tools:	pages B-E-01…
Assembly instructions:	page B-D-05
Crimp tools for contacts:	pages B-B-01…
Crimp contacts:	pages B-C-01…

We also deliver as a connector set.
Connector with crimp insert - and
the contacts are separate included.
Please ask for P/N

Part Number	SSR-	x	x	x	x	x	x	x	7	x	x	x

with black O-ring	**SSR-**
with red O-ring	**SSRR-**
with yellow O-ring	**SSRY-**
with green O-ring	**SSRG-**
with blue O-ring	**SSRB-**

Here please fill in the first
7 digits of your desired
connector insert
(6-19 positions)
from page B-A-01
to page B-A-29

E	1	6	without cable gland
			endbell threaded M16x1.5
E	2	0	without cable gland
			endbell threaded M20x1.5
M	1	6	with IP 68 cable gland
			M16, cable entry 5-10 mm
M	2	0	with IP 68 cable gland
			M20, cable entry 9-14 mm
M	2	5	with IP 68 cable gland
			M25, cable entry 13-19 mm
			(with adaptor)

f.e. SSR-xxxxxxx7M20