

# Shielded Connectors M23/Speedcon Series RF Technical Data



Shell material											
Machined components:	Copper-Zin	c alloy (Cuz	Zn)	or stainless	steel 1.430	5					
die cast components:	Zinc (GD-Z	n)									
Shell plating:	Nickel (Ni)	plated									
Cable entry:	max. 13.2 r	nm	All connect	Il connectors with universal							
Insulator					shielding m	aterial for o	different				
Connector inserts:	Polyamid (I	PA66),			jacket and	shield diam	neters.				
Contacts											
Contact material:	Copper-Zin	c alloy (Cuz	Zn)								
Contact plating:	Nickel (Ni)	with gold (A	u) passivat	ed	all a						
Contact termination:	crimp type					EMC					
Sealing			e		- Treiner I	shielding					
Sealing rings:	Fluor rubbe	er (FPM)			and the owner of the owner.						
Gaskets:	Fluor rubbe	er (FPM)									
Temperature			~			1/2					
Temperature (long term) Celsius:	-20 °C up	to +125°C									
Temperature (long term) Fahrenheit:	- 4 °F up to + 257 °F										
Mating						A					
Female coupling nuts:	M23 screw locking or Speedcon										
Male receptacles:	M23 screw locking or Speedcon										
Mating cycles:	Standard m	nin. 50									
Protection					1. Ju						
Protection class :	IP 67 (mate	ed) depends	on which o	cable gland is	s used						
Crimp inserts				N 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10							
Number of positions				12	16	17					
Number of contacts				12	16	17					
Contact dia. (mm Ø)				1	1	1					
Rated current at 25°C (A)				8	8	8					
Rated voltage (V)				150	150	150					
Test voltage (Volt AC)				1,500	1,500	1,500					
Overvoltage category DIN EN 61984-2001				II		II					
Insulation resistance ( $\Omega$ )				≥10 <sup>12</sup>	≥10 <sup>12</sup>	≥10 <sup>12</sup>					
Contact resistance (m $\Omega$ )				≤3	_≤3	_≤3					
Pollution degree acc. to IEC 664-1				2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )					
Contact resistance (m $\Omega$ )				≤3	≤3	≤3					
Wiring size AWG				28-18	28-18	28-18					

## Shielded Connectors M23 Series RF Shell styles 8, 9, WA, WQ, WB, W4



Shell styles 8, 9, WA,	Connect	
RF-xxxxxx8xxx	RF-xxxxxx9xxx	RF-xxxxxWA00
page C-E-07	page C-E-08	page C-E-09
cable connector straight	cable connector straight	front mount, straight
with coupling nut M23	with outside thread M23	square flange, axial O-ring
cable entry max. 13.2 mm	cable entry max. 13.2 mm	flange with 4 x 3.2 mm Ø
universal shielding material	universal shielding material	with outside thread M23
Speedcon style 80 (S)	style 90	style WA
RF-xxxxxWQ00	RF-xxxxxxWB00	RF-xxxxxxW400
page C-E-09	page C-E-10	page C-E-10
front mount, straight	front mount, straight, snap in	front mount, straight, snap in
square flange, axial O-ring	square flange, axial O-ring	square flange, axial O-ring
flange with 4 x 2.7 mm $Ø$	flange with 4 x 3.2 mm Ø	flange with 4 x 2.7 mm Ø
with outside thread M23	with outside thread M23	with outside thread M23

# Shielded Connectors M23 Series RF Shell styles 61, A2, AF, AK, AD, AC



	NF, AK, AD, AC	Connect
RF-xxxxx6100	RF-xxxxxA200	RF-xxxxxAF00
page C-E-11	page C-E-12	page C-E-13
front mount, straight	front mount, angled 26x26 mm	front mount, angled 26x26 mm
round flange, axial O-ring	square flange, axial O-ring	square flange, axial O-ring
mounting thread M20x1.5 mm	flange with 4 x 3.2 mm $Ø$	flange with 4 x 3.2 mm $Ø$
with outside thread M23	with outside thread M23	with outside thread M23
style 61 RF-xxxxxAK00	style A2 RF-xxxxxAD00	style AF RF-xxxxxAC00
page C-E-13	page C-E-14	page C-E-14
front mount, angled 28x28 mm	front mount, angled 26x26 mm	front mount, angled 28x28 mm
square flange avial O ring		
square flange, axial O-ring	square flange, axial O-ring	square flange, axial O-ring
flange with 4 x 3.2 mm $Ø$	flange with 4 x 3.2 mm $Ø$	flange with 4 x 3.2 mm $Ø$

# Shielded Connectors M23 Series RF Shell styles 8V, 9V, WV, WU



Shell styles 8V, 9V, V	,	Cottine				
RF-xxxxxx8Vxx	RF-xxxxxx9Vxx	RF-xxxxxxWV00				
page C-E-17	page C-E-18	page C-E-19				
cable connector straight	cable connector straight	front mount, straight				
with coupling nut M23	with outside thread M23	square flange, axial O-ring				
cable entry max. 13.2 mm	cable entry max. 13.2 mm	flange with 4 x 3.2 mm Ø				
universal shielding material	universal shielding material	with outside thread M23				
stainless steel	stainless steel	stainless steel				
style 8V	style 9V	style WV				
RF-xxxxxWU00						
page C-E-19 front mount, straight						
square flange, axial O-ring						
flange with 4 x 2.7 mm $Ø$						
with outside thread M23						
stainless steel						
style WQ						

## Shielded Connectors M23 Series RF fits all RF- Bulkheads Shell style 80 (S)



59.1 max Ø13.2 Ø26.1 Assembly instructions: page B-D-14 All RF-connectors with universal Caps and accessories: pages: B-H-01... shielding material for different jacket and shield diameters. Mounting tools: N/A or counterpart We also deliver as a connector set. Crimp tool for contacts: pages B-B-01... Connector with crimp insert - and Crimp contacts: pages B-C-30..... contacts separate included. Please ask for P/N. Part Number RF-Х Х Х Х Х Х Х Х Х Х Х Х Please fill in the first 7 digits of your desired crimp connector insert (12-17 positions) from pages B-A-58... Connectors with integrated strain relief and.... seal ring for 3.0 - 13.2 mm Ø 8 0 D U seal ring for 3.0 - 13.2 mm Ø in speedcon technology U S 8 0 D seal ring for 6 - 10 mm Ø 8 0 0 2 8 0 0 3 seal ring for 9 - 13.2 mm Ø

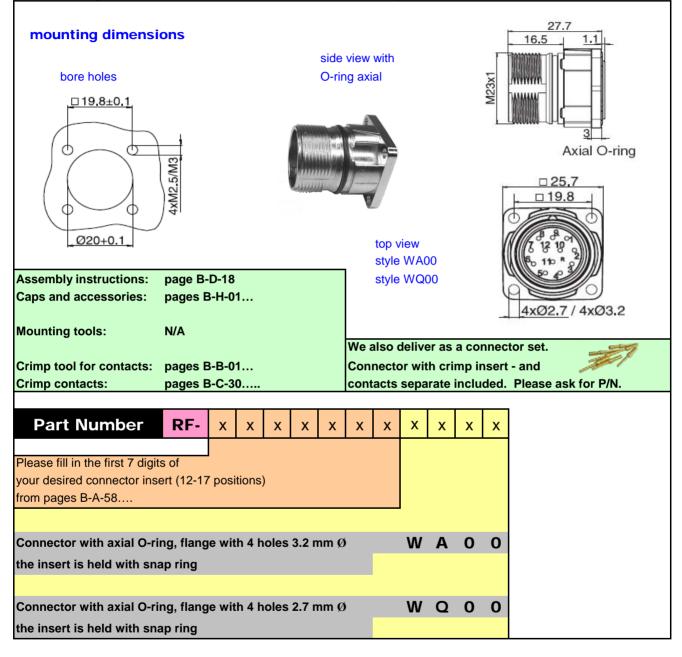
### Shielded Connectors M23 Series RF fits all RF- Connectors with Coupling Nut Shell style 90



59.3 max\_013. M23x1 Assembly instructions: page B-D-15 All RF-connectors with universal Caps and accessories: pages: B-H-01... shielding material for different jacket and shield diameters. Mounting tools: N/A We also deliver as a connector set. Crimp tool for contacts: pages B-B-01... Connector with crimp insert - and Crimp contacts: pages B-C-30..... contacts separate included. Please ask for P/N. Part Number RF-Х Х Х Х Х Х Х Х Х Х Х Please fill in the first 7 digits of your desired crimp connector insert (12-17 positions) from pages B-A-58... Connectors with integrated strain relief and.... seal ring for 3.0 - 13.2 mm Ø 9 0 DU seal ring for 6 - 10 mm Ø 9 0 0 2 seal ring for 9 - 13.2 mm Ø 9 0 0 3



## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style WA/WQ (front mount receptacles)





mect

## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style WB/W4 (front mount receptacles)

mounting dimensions bore holes $19.8\pm0.1$ $19.8\pm0.1$ 0.1							side view with O-ring axial					27.7 16.5 1.1 27.7 16.5 1.1 3 Axial O-ring			
Assembly instructions: Caps and accessories:	page B- pages E							style	W40	0		U	4xØ2.7 / 4xØ3.2		
Mounting tools:	N/A						Wo		dolive		2.00	-			
Crimp tool for contacts: Crimp contacts:	pages E pages E						We also deliver as a connector set. Connector with crimp insert - and contacts separate included. Please ask for P/N.								
Part Number	RF-	x	x	х	x	x	x	x	х	х	х	х			
Please fill in the first 7 digit your desired connector ins from pages B-A-58		' pos	itions	)											
Connector with axial O-ri the insert is snapped into				oles	3.2 n	nm Ø	•		W	В	0	0			
the insert is snapped into	, the nou	sing													
Connector with axial O-ri the insert is snapped into				oles	2.7 n	nm Ø	)		W	4	0	0			
the insert is shapped into	, the nou	sing													

## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style 61 (front mount receptacles)



mounting dimensio				e view with ng axial									
or thread M20x1.5 mm					M23x1		2	1.5		6			
-	bage B-I bages B												\ <u>M20</u> x1.5 xial O-ring
Caps and accessories.	Jayes D	-ח-บ	1									A	xial O-ning
Mounting tools:	N/A						We also deliver as a connector set.						
	bages B						Connector with crimp insert - and						
Crimp contacts: p	bages B	-C-3	0				contacts separate included. Please ask for P/N.						
Part Number	RF-	х	х	х	х	x	x	x	х	х	х	x	
Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58													
mounting thread M20x1.5 r			6	1	0	0							
mounting thread M20x1.5 r	( nut				6	1	0	N					
mounting thread M20x1.5 r	mm plus	s hex	c nut	and	wash	er			6	1	W	Ν	

## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style A2 (front mount receptacles)



mounting dimension	side O-ri	e view with ng axial	34.2 4 4 4 4 4 4 4 4 4 4 4 4 4			
Assembly instructions: Caps and accessories: Mounting tools:	page B-D-17 pages B-H-01 N/A	top vie style A				
Crimp tool for contacts:	pages B-B-01…	We also deliver as a connector set. Connector with crimp insert - and				
Crimp contacts:	pages B-C-30	contacts se	eparate included. Please ask for P/N.			
Part Number	RF- x x x x x	x x	x x x x			
Please fill in the first 7 digi your desired connector ins from pages B-A-58						
Connector with axial O-r connector body angled, t	ing, flange with 4 holes 3.2 mm ( fixed	ð	A 2 0 0			

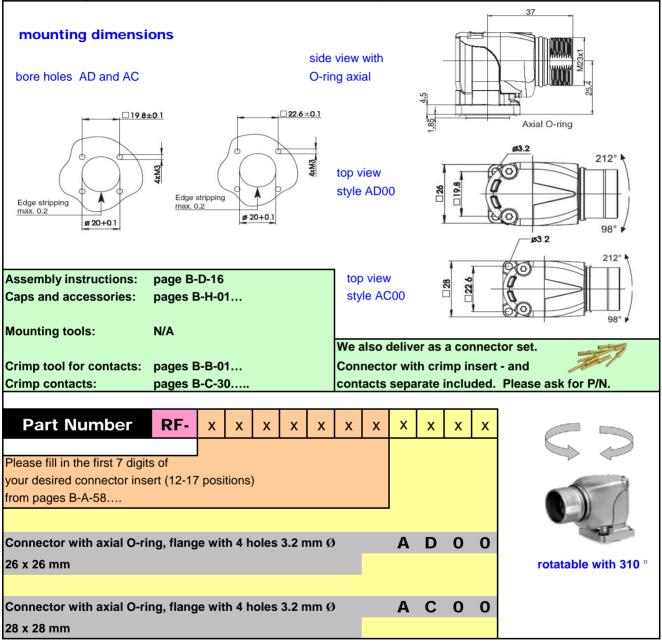
## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style AF/AK (front mount receptacles)



Shell Style Al		-	_										
mounting dimensi											37 37 4 4 4 4 4 4 4 4 4 4 4 4 4		
5 20+01		8 20+	+0.1		4xM3			top v style	iew AF0	0			4x03.2 4x03.2 4x03.2 4x03.2
Assembly instructions: Caps and accessories:	page B-I pages B		1					top v style	iew AK0	0	□28 □28		
Mounting tools:	N/A										•	<u>.                                    </u>	
Mounting tools: Crimp tool for contacts: Crimp contacts:	pages B					c	Conn	ecto	or wit	h cri	mp iı	nser	ctor set. t - and . Please ask for P/N.
Crimp tool for contacts:						c	Conn	ecto	or wit	h cri	mp iı	nser	
Crimp tool for contacts:	pages B			x	X	c	Conn	ecto	or wit	h cri	mp iı	nser	t-and
Crimp tool for contacts: Crimp contacts: Part Number	pages B pages B <b>RF-</b>	-C-30	)	x	X	(	Conn conta	ecto acts	or wit sepa	h cri rate	mp iı inclu	nseri ded.	t-and
Crimp tool for contacts: Crimp contacts:	pages B pages B RF-	-C-30	о х	<u> </u>	x	(	Conn conta	ecto acts	or wit sepa	h cri rate	mp iı inclu	nseri ded.	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit	pages B pages B RF-	-C-30	о х	<u> </u>	x	(	Conn conta	ecto acts	or wit sepa	h cri rate	mp iı inclu	nseri ded.	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit your desired connector ins	pages B pages B RF-	-C-30	о х	<u> </u>	x	(	Conn conta	ecto acts	or wit sepa	h cri rate	mp iı inclu	nseri ded.	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit your desired connector ins from pages B-A-58 Connector with axial O-ri	pages B pages B <b>RF-</b> ts of ert (12-17	x posit	D X	)		x	Conn conta	ecto acts	or wit sepa	h cri rate	mp iı inclu	nseri ded.	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit your desired connector ins from pages B-A-58	pages B pages B <b>RF-</b> ts of ert (12-17	x posit	D X	)		x	Conn conta	ecto acts	or with sepa X	th cri trate	mp ii inclu X	nseri ded. X	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit your desired connector ins from pages B-A-58 Connector with axial O-ri angled body, fixed, flange	pages B pages B <b>RF-</b> ts of ert (12-17	x posit e with	X tions)	) ioles	3.2 m	x nm Ø	Conn conta	ecto acts	or with sepa X	h cri rrate X	mp ii inclu X	nseri ded. X	t-and
Crimp tool for contacts: Crimp contacts: Part Number Please fill in the first 7 digit your desired connector ins from pages B-A-58 Connector with axial O-ri	pages B pages B RF- ts of ert (12-17	x posit mm e with	X tions)	) ioles	3.2 m	x nm Ø	Conn conta	ecto acts	or with sepa X	th cri trate	mp ii inclu X	nseri ded. X	t-and



### Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style AD/AC (front mount receptacles)



#### Shielded Connectors M23 Series RF fits all RF- Bulkheads Shell style 8V



Shell style 8V												
							<u>St</u>	ainl	ess	s St	eel 1.4305	
026.1	59.1							max.013.2	4			
Assembly instructions: Caps and accessories: Mounting tools: Crimp tool for contacts:	page B-D-1 pages: B-H N/A or cou pages B-B	1-01 Interpar -01	rt			shieldir jacket a We also Conneo	RF-connectors with universal ielding material for different extended to the second sec					
Crimp contacts:	pages B-C	-30				contact	s sepa	arate	inclu	ded.	Please ask for P/N.	
Part Number Please fill in the first 7 digit crimp connector insert (12	•	sired	X pages	x B-A-	X 58	xx	x	x	x	x		
Connectors with integ	rated strair	n relief	and									
seal ring for 3.0 - 13.2 mm							8	V	D	U		
seal ring for 6 - 10 mm Ø							8	V	0	2		
seal ring for 9 - 13.2 mm Ø							8	V	0	3		

### Shielded Connectors M23 Series RF fits all RF- Connectors with Coupling Nut Shell style 9V



Shell style 9V												
							<u>Sta</u>	ainl	ess	s Steel 1.4305		
M23X1	59.3					may (013.0						
Assembly instructions: Caps and accessories: Mounting tools: Crimp tool for contacts:	page B-D- pages: B- N/A pages B-I	-H-01			shielding jacket an We also	I RF-connectors with universal hielding material for different cket and shield diameters.						
Crimp contacts:	pages B-0	C-30			contacts	contacts separate included. Please ask for P/N.						
Part Number Please fill in the first 7 digits crimp connector insert (12-	s of your de		X	<b>X</b> >	<u> </u>	x	x	x	x			
<b>Connectors with integr</b> seal ring for 3.0 - 13.2 mm Ø		in relief	and.			9	V	D	U			
seal ring for 6 - 10 mm Ø						9	V	0	2			
seal ring for 9 - 13.2 mm Ø						9	V	0	3			



## Shielded Connectors M23 Series RF fits all RF-Connectors with Coupling Nut Shell style WV/WU (front mount receptacles)

