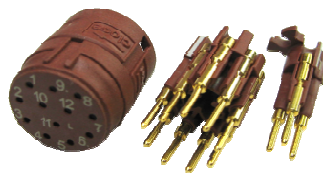


Member of the Phoenix Contact Group

R F Series

Shielded Connectors M23 crimp versions



Shielded Connectors M23/Speedcon Series RF

Technical Data



Shell material

Machined components: Copper-Zinc alloy (CuZn) or stainless steel 1.4305
 die cast components: Zinc (GD-Zn)
 Shell plating: Nickel (Ni) plated
 Cable entry: max. 13.2 mm

Insulator

Connector inserts: Polyamid (PA66),

Contacts

Contact material: Copper-Zinc alloy (CuZn)
 Contact plating: Nickel (Ni) with gold (Au) passivated
 Contact termination: crimp type

Sealing

Sealing rings: Fluor rubber (FPM)
 Gaskets: Fluor rubber (FPM)

Temperature

Temperature (long term) Celsius: - 20 °C up to +125°C
 Temperature (long term) Fahrenheit: - 4 °F up to + 257 °F

Mating

Female coupling nuts: M23 screw locking or Speedcon
 Male receptacles: M23 screw locking or Speedcon
 Mating cycles: Standard min. 50

Protection

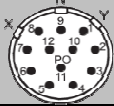
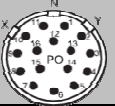
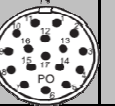
Protection class : IP 67 (mated) depends on which cable gland is used

All connectors with universal shielding material for different jacket and shield diameters.



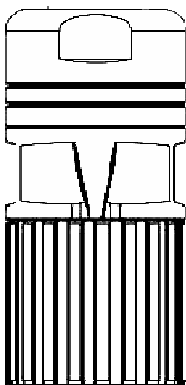

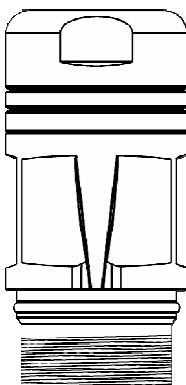
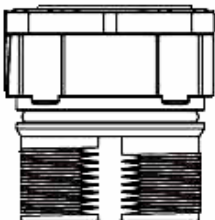
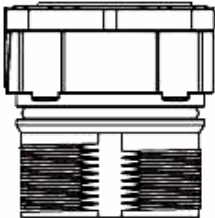
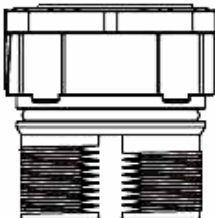
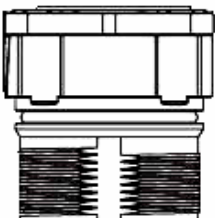
EMC
shielding



Crimp inserts				  		
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	II
Insulation resistance (Ω)				≥10 ¹²	≥10 ¹²	≥10 ¹²
Contact resistance (mΩ)				≤3	≤3	≤3
Pollution degree acc. to IEC 664-1				2 (3 ¹)	2 (3 ¹)	2 (3 ¹)
Contact resistance (mΩ)				≤3	≤3	≤3
Wiring size AWG				28-18	28-18	28-18

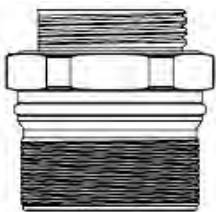
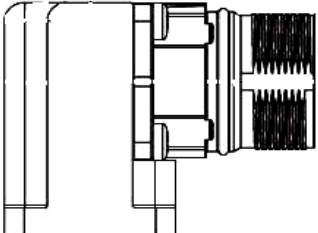
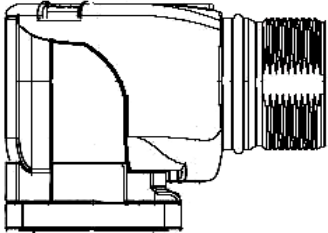
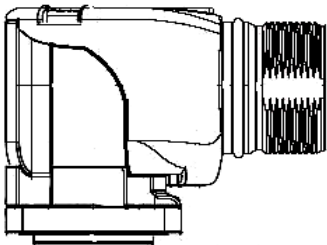
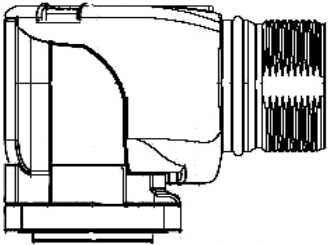
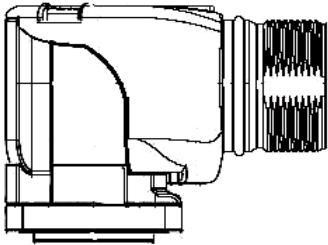
Shielded Connectors M23 Series RF

Shell styles 8, 9, WA, WQ, WB, W4

RF-xxxxxxx8xxx page C-E-07	RF-xxxxxxx9xxx page C-E-08	RF-xxxxxxxWA00 page C-E-09
cable connector straight with coupling nut M23 cable entry max. 13.2 mm universal shielding material	cable connector straight with outside thread M23 cable entry max. 13.2 mm universal shielding material	front mount, straight square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23
  <p>style 80 (S)</p>	 <p>style 90</p>	 <p>style WA</p>
RF-xxxxxxxWQ00 page C-E-09	RF-xxxxxxxWB00 page C-E-10	RF-xxxxxxxW400 page C-E-10
front mount, straight square flange, axial O-ring flange with 4 x 2.7 mm Ø with outside thread M23	front mount, straight, snap in square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23	front mount, straight, snap in square flange, axial O-ring flange with 4 x 2.7 mm Ø with outside thread M23
 <p>style WQ</p>	 <p>style WB</p>	 <p>style W4</p>

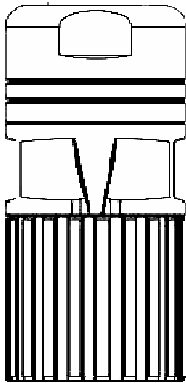
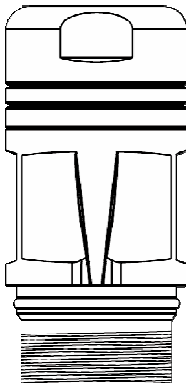
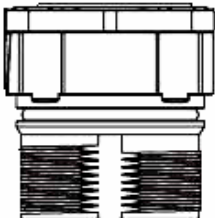
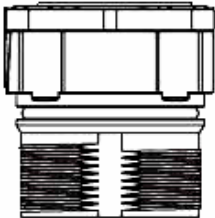
Shielded Connectors M23 Series RF

Shell styles 61, A2, AF, AK, AD, AC

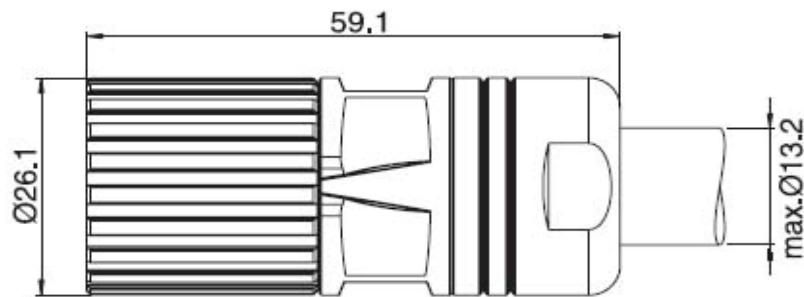
RF-xxxxxxx6100 page C-E-11	RF-xxxxxxxA200 page C-E-12	RF-xxxxxxxAF00 page C-E-13
front mount, straight round flange, axial O-ring mounting thread M20x1.5 mm with outside thread M23	front mount, angled 26x26 mm square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23	front mount, angled 26x26 mm square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23
		
style 61	style A2	style AF
RF-xxxxxxxAK00 page C-E-13	RF-xxxxxxxAD00 page C-E-14	RF-xxxxxxxAC00 page C-E-14
front mount, angled 28x28 mm square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23	front mount, angled 26x26 mm square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23	front mount, angled 28x28 mm square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23
		
style AK	rotatable style AD	rotatable style AC

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



RF-xxxxxxx8Vxx page C-E-17	RF-xxxxxxx9Vxx page C-E-18	RF-xxxxxxxWV00 page C-E-19
cable connector straight with coupling nut M23 cable entry max. 13.2 mm universal shielding material	cable connector straight with outside thread M23 cable entry max. 13.2 mm universal shielding material	front mount, straight square flange, axial O-ring flange with 4 x 3.2 mm Ø with outside thread M23
 <p>stainless steel</p> <p>style 8V</p>	 <p>stainless steel</p> <p>style 9V</p>	 <p>stainless steel</p> <p>style WV</p>
RF-xxxxxxxWU00 page C-E-19		
front mount, straight square flange, axial O-ring flange with 4 x 2.7 mm Ø with outside thread M23		
 <p>stainless steel</p> <p>style WQ</p>		

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

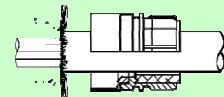


Assembly instructions: page B-D-14
 Caps and accessories: pages: B-H-01...

Mounting tools: N/A or counterpart

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

All RF-connectors with universal shielding material for different jacket and shield diameters.



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	X	X	X	X	X	X	X	X	X	X
	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								8	0	D	U	S	
seal ring for 6 - 10 mm Ø								8	0	0	2		
seal ring for 9 - 13.2 mm Ø								8	0	0	3		

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

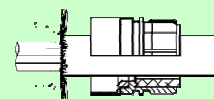


Assembly instructions: page B-D-15
 Caps and accessories: pages: B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

All RF-connectors with universal shielding material for different jacket and shield diameters.



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

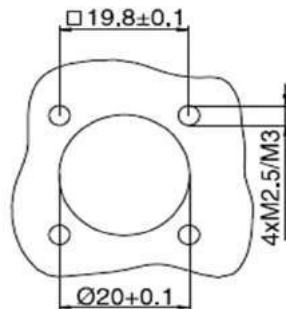


Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
		Please fill in the first 7 digits of your desired crimp connector insert (12-17 positions) from pages B-A-58...										
Connectors with integrated strain relief and....												
seal ring for 3.0 - 13.2 mm Ø									9	0	D	U
seal ring for 6 - 10 mm Ø									9	0	0	2
seal ring for 9 - 13.2 mm Ø									9	0	0	3

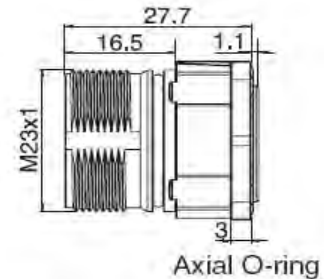
Shielded Connectors M23 Series RF **fits all RF-Connectors with Coupling Nut** **Shell style WA/WQ (front mount receptacles)**

mounting dimensions

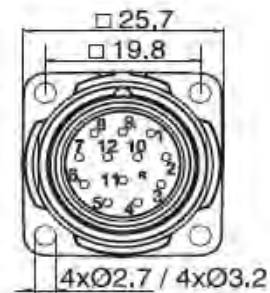
bore holes



side view with
O-ring axial



top view
style WA00
style WQ00



Assembly instructions: page B-D-18
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

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

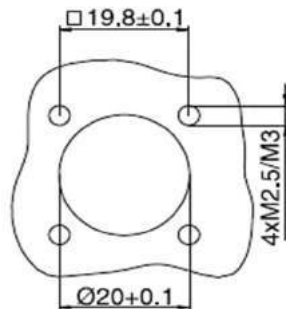


Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....												
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø the insert is held with snap ring												
W A 0 0												
Connector with axial O-ring, flange with 4 holes 2.7 mm Ø the insert is held with snap ring												
W Q 0 0												

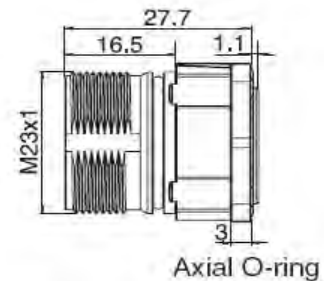
Shielded Connectors M23 Series RF **fits all RF-Connectors with Coupling Nut** **Shell style WB/W4 (front mount receptacles)**

mounting dimensions

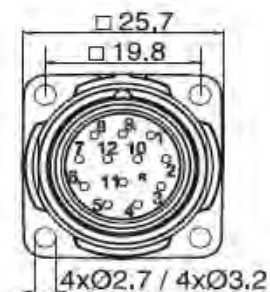
bore holes



side view with
O-ring axial



top view
style WB00
style W400



Assembly instructions: page B-D-19
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30....

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

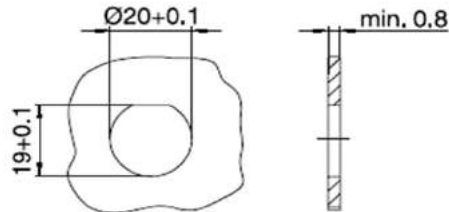


Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....												
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø the insert is snapped into the housing												
WB 0 0												
Connector with axial O-ring, flange with 4 holes 2.7 mm Ø the insert is snapped into the housing												
W 4 0 0												

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

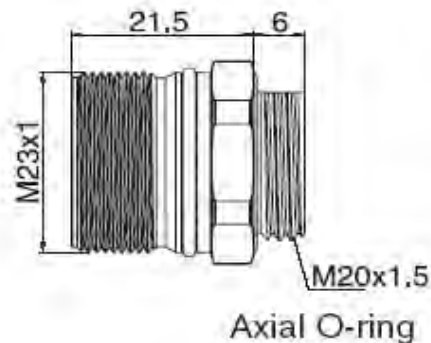
mounting dimensions

bore holes



or thread M20x1.5 mm

side view with
O-ring axial



Assembly instructions: page B-D-13
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

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

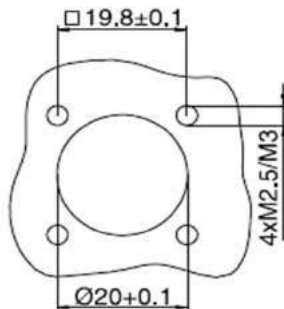


Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
		Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....										
mounting thread M20x1.5 mm									6	1	0	0
mounting thread M20x1.5 mm plus hex nut									6	1	0	N
mounting thread M20x1.5 mm plus hex nut and washer									6	1	W	N

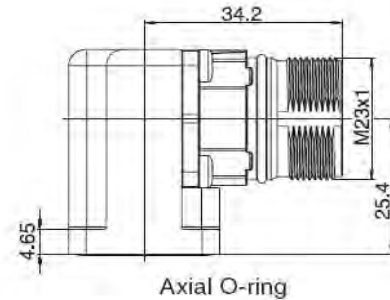
Shielded Connectors M23 Series RF **fits all RF-Connectors with Coupling Nut** **Shell style A2 (front mount receptacles)**

mounting dimensions

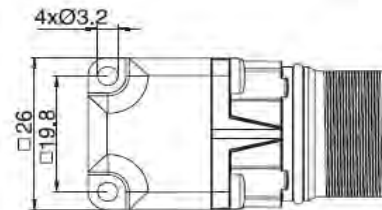
bore holes



side view with
O-ring axial



top view
style A200



Assembly instructions: page B-D-17
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

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



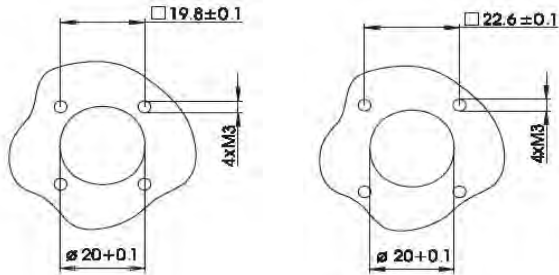
Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....												
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø												
connector body angled, fixed												
A 2 0 0												

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

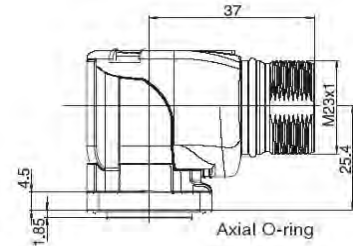


mounting dimensions

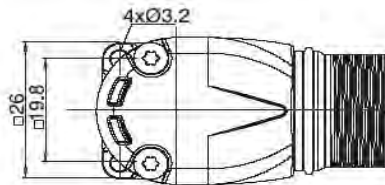
bore holes AF and AK



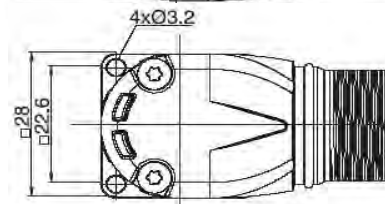
side view with
O-ring axial



top view
style AF00



top view
style AK00



Assembly instructions: page B-D-16
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

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	X	X	X	X	X	X	X	X	X				
		Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....														
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø angled body, fixed, flange 26 x 26 mm													A	F	0	0
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø angled body, fixed, flange 28 x 28 mm													A	K	0	0



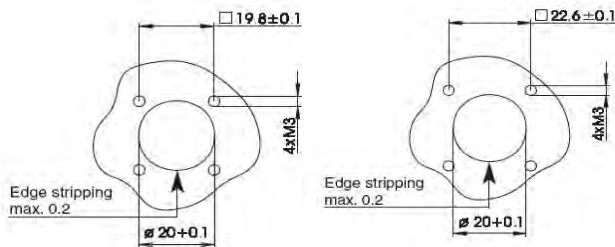
Shielded Connectors M23 Series RF
fits all RF-Connectors with Coupling Nut
Shell style AD/AC (front mount receptacles)



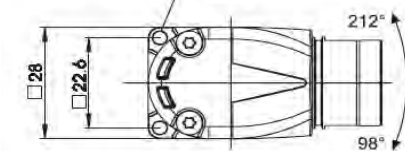
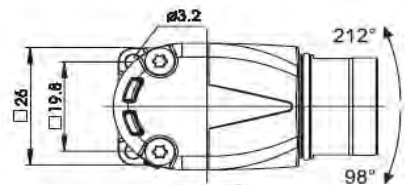
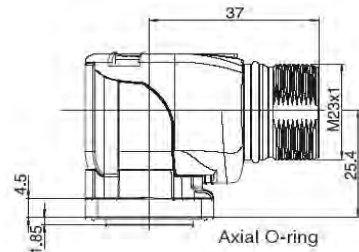
mounting dimensions

bore holes AD and AC

side view with
O-ring axial



top view
style AD00



Assembly instructions: page B-D-16
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

top view
style AC00

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



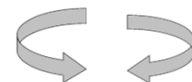
Part Number

RF- X X X X X X X X X X X X

Please fill in the first 7 digits of
 your desired connector insert (12-17 positions)
 from pages B-A-58....

Connector with axial O-ring, flange with 4 holes 3.2 mm Ø **A D 0 0**
 26 x 26 mm

Connector with axial O-ring, flange with 4 holes 3.2 mm Ø **A C 0 0**
 28 x 28 mm

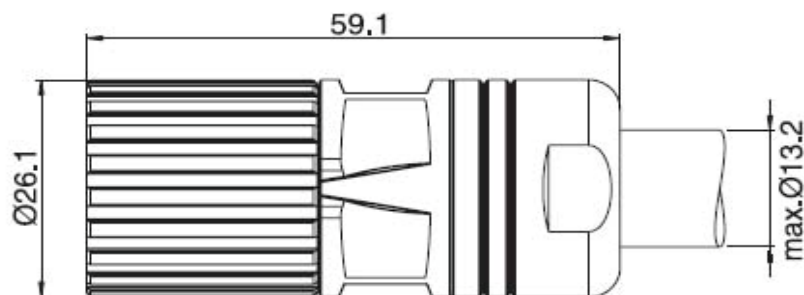


rotatable with 310 °

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



Stainless Steel 1.4305

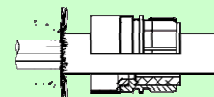


Assembly instructions: page B-D-14
 Caps and accessories: pages: B-H-01...

Mounting tools: N/A or counterpart

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

All RF-connectors with universal shielding material for different jacket and shield diameters.



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	X	X	X	X	X	X	X	X	X
	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	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



Stainless Steel 1.4305

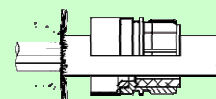


Assembly instructions: page B-D-15
 Caps and accessories: pages: B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

All RF-connectors with universal shielding material for different jacket and shield diameters.



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



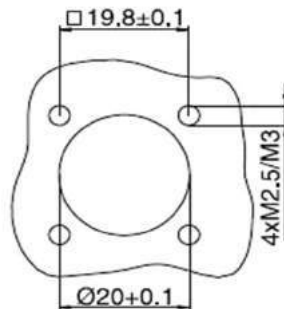
Part Number	RF-	X	X	X	X	X	X	X	X	X	X	X
		Please fill in the first 7 digits of your desired crimp connector insert (12-17 positions) from pages B-A-58...										
Connectors with integrated strain relief and....												
seal ring for 3.0 - 13.2 mm Ø									9	V	D	U
seal ring for 6 - 10 mm Ø									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)**

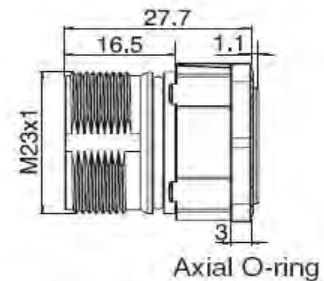
Stainless Steel 1.4305

mounting dimensions

bore holes

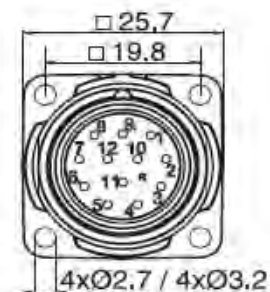


side view with
O-ring axial



Axial O-ring

top view
style WV00
style WU00



Assembly instructions: page B-D-18
 Caps and accessories: pages B-H-01...

Mounting tools: N/A

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-30.....

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	X	X	X	X	X	X	X	X	X
Please fill in the first 7 digits of your desired connector insert (12-17 positions) from pages B-A-58....												
Connector with axial O-ring, flange with 4 holes 3.2 mm Ø the insert is held with snap ring												
W V 0 0												
Connector with axial O-ring, flange with 4 holes 2.7 mm Ø the insert is held with snap ring												
W U 0 0												