

Member of the Phoenix Contact Group

## C A Series

**Shielded Connectors M23**

# Connectors M23 Series CA

## Technical Data



### Shell material

Machined components: Copper-Zinc alloy (CuZn)  
 die cast components: Zinc (GD-Zn)  
 Shell plating: Nickel (Ni) plated  
 Cable entry: max. 14.5 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: Fluor rubber (FPM)  
 Gaskets: Fluor rubber (FPM), or Perbunan (NBR) stiffened gaskets

### 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/Speedcon  
 Male receptacles: M23 screw locking/Speedcon  
 Mating cycles: Standard min. 50



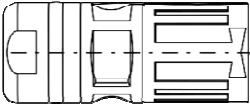

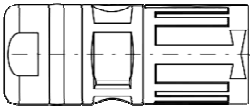
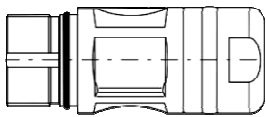
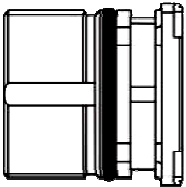
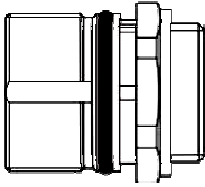
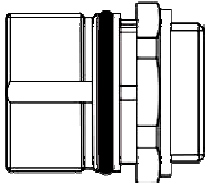
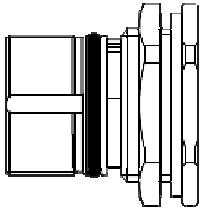
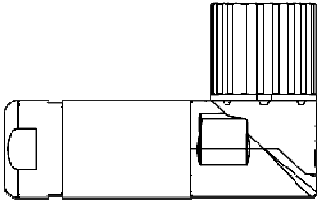
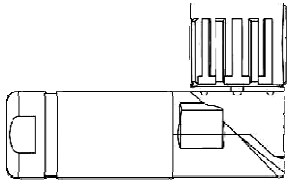

### Protection

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

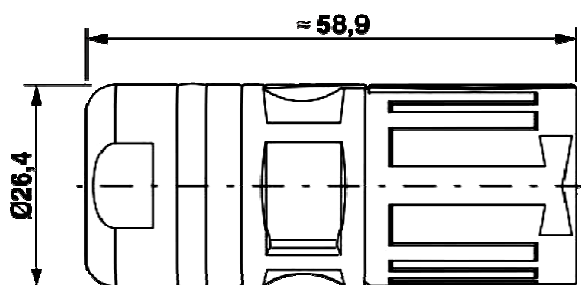
Number of positions	6,7	9 (8+1)	9 (6+3)	12	16	17	19 (16+3)
Number of contacts	6,7	8 1	6 3	12	16	17	16 3
Contact dia. (mm Ø)	2	1 2	1 2	1	1	1	1 1.5
Rated current at 25°C (A)	20	8 20	8 20	8	8	8	8 10
Rated voltage (V)	250	150	150	150	150	150	150
Test voltage (Volt AC)	2,500	1,500	1,500	1,500	1,500	1,500	1,500
Overvoltage category DIN EN 61984-2001	II	II	II	II	II	II	II
Insulation resistance (Ω)	≥10 <sup>16</sup>	≥10 <sup>16</sup>	≥10 <sup>12</sup>	≥10 <sup>12</sup>	≥10 <sup>12</sup>	≥10 <sup>12</sup>	≥10 <sup>12</sup>
Contact resistance (mΩ)	≤3	≤3	≤3	≤3	≤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> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )
Contact resistance (mΩ)	≤3	≤3	≤3	≤3	≤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> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )	2 (3 <sup>1</sup> )

## Shielded Connectors M23 Series CA

### Shell styles 8, 8S, 9, 2, 6, H, T0

CA-xxxxxxx80xxS page C-L-04	CA-xxxxxxx80xx page C-L-05	CA-xxxxxxx90xx page C-L-06
Cable connector, straight with female coupling nut cable entry max. 14.5 mm Ø with universal shielding sleeve	Cable connector, straight with female coupling nut cable entry max. 14.5 mm Ø with universal shielding sleeve	Cable connector, straight with male thread cable entry 14.5 mm Ø with universal shielding sleeve
  <b style="color: red;">style 8</b>	 <b style="color: red;">style 8</b>	 <b style="color: red;">style 9</b>
CA-xxxxxxx2Sxx page C-L-07	CA-xxxxxxx6Y00 page C-L-08	CA-xxxxxxx6Zxx page C-L-09
front mount, straight square flange, gasket flange with holes male thread M23	front mount, straight round flange, gasket lock nut from the back M20 male thread M 23	front mount, straight round flange, gasket lock nut from the back PG 13.5 male thread M 23
 <b style="color: red;">style 2S</b>	 <b style="color: red;">style 6Y</b>	 <b style="color: red;">style 6Z</b>
CA-xxxxxxxHZxx page C-L-10	CA-xxxxxxxT0xx page C-L-11	CA-xxxxxxxT0xxS page C-L-12
rear mount, straight round flange, axial seal lock nut from the front male thread M 23	Cable connector, angled with female coupling nut cable entry max. 14.5 mm Ø with universal shielding sleeve	Cable connector, angled with female coupling nut cable entry max. 14.5 mm Ø with universal shielding sleeve
 <b style="color: red;">style HZ</b>	 <b style="color: red;">style T0xx</b>	  <b style="color: red;">style T0xxS</b>

# **Shielded Cable Connectors M23 Series CA** **fits all RC/UC/RF/CA Connectors with male outside thread** **Shell style 8xxS**




Speedcon Version



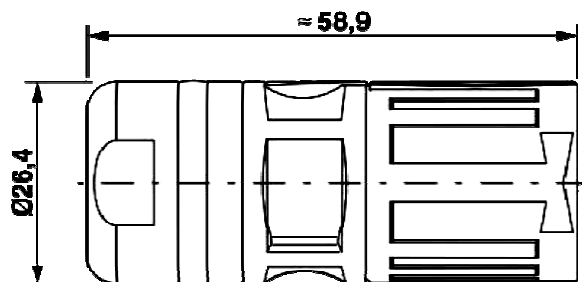
**Caps and accessories:** pages B-H-01...  
**Mounting tools:** pages B-E-01...  
**Assembly instructions:** page B-D-14  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	8	0	X	X	S
	Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29												
Shielded cable connector with universal shielding sleeve													
Cable connector, straight	cable entry 3-14.5 mm Ø										D	N	
Cable connector, straight	cable entry 4-6.0 mm Ø										0	6	
Cable connector, straight	cable entry 6-10.0 mm Ø										0	7	
Cable connector, straight	cable entry 10-14.5 mm Ø										0	8	

**Shielded Cable Connectors M23 Series CA**  
**fits all RC/UC/RF/CA Connectors with male outside thread**  
**Shell style 8xx**



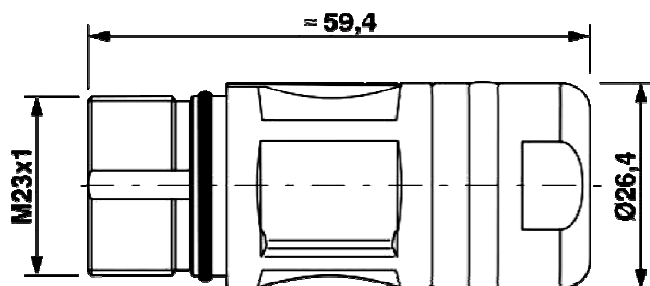
**Caps and accessories:** pages B-H-01...  
**Mounting tools:** pages B-E-01...  
**Assembly instructions:** page B-D-14  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	8	0	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29										
Shielded cable connector with universal shielding sleeve												
Cable connector, straight		cable entry 3-14.5 mm Ø									D	N
Cable connector, straight		cable entry 4-6.0 mm Ø									0	6
Cable connector, straight		cable entry 6-10.0 mm Ø									0	7
Cable connector, straight		cable entry 10-14.5 mm Ø									0	8

# **Shielded Cable Connectors M23 Series CA** **fits all RC/UC/RF/CA Connectors with female coupling nut** **Shell style 9xx**



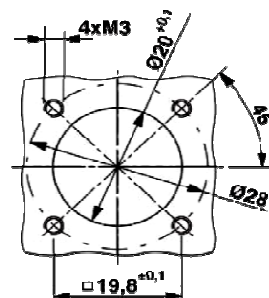
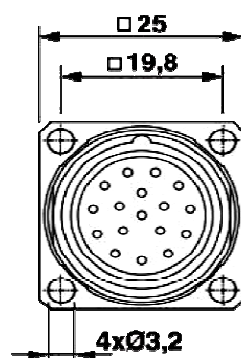
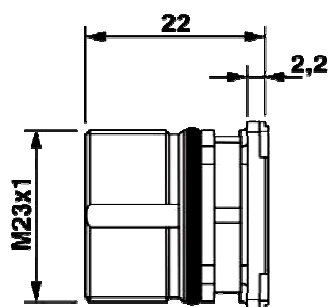
**Caps and accessories:** pages B-H-01...  
**Mounting tools:** pages B-E-01...  
**Assembly instructions:** page B-D-15  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	9	0	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29										
Shielded cable connector with universal shielding sleeve												
Cable connector, straight		cable entry 3-14.5 mm Ø									D	N
Cable connector, straight		cable entry 4-6.0 mm Ø									0	6
Cable connector, straight		cable entry 6-10.0 mm Ø									0	7
Cable connector, straight		cable entry 10-14.5 mm Ø									0	8


**Flange Connector front mount M23 Series CA**  
**fits all RC/UC/RF/CA Connectors with female coupling nut**  
**Shell style 2xx**



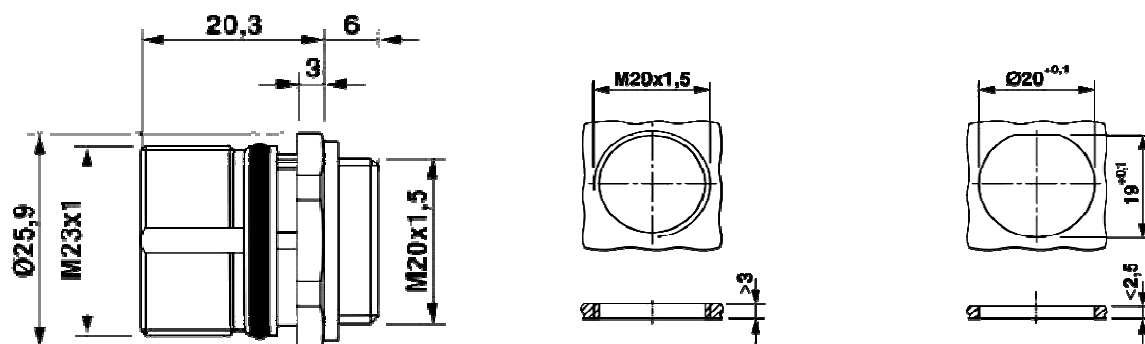
Caps and accessories: pages B-H-01...  
 Mounting tools: N/A  
 Assembly instructions: N/A  
 Crimp tools for contacts: pages B-B-01...  
 Crimp contacts: pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	X	X	X	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29											
Square flange connector with flat gasket front mount													
flange with 4 holes 3.2 mm Ø													
2 S 0 0													


**Flange Connector front mount M23 Series CA**  
**fits all RC/UC/RF/CA Connectors with female coupling nut**  
**Shell style 6xx**

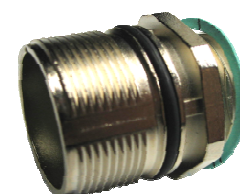


**Caps and accessories:** pages B-H-01...  
**Mounting tools:** N/A  
**Assembly instructions:** N/A  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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

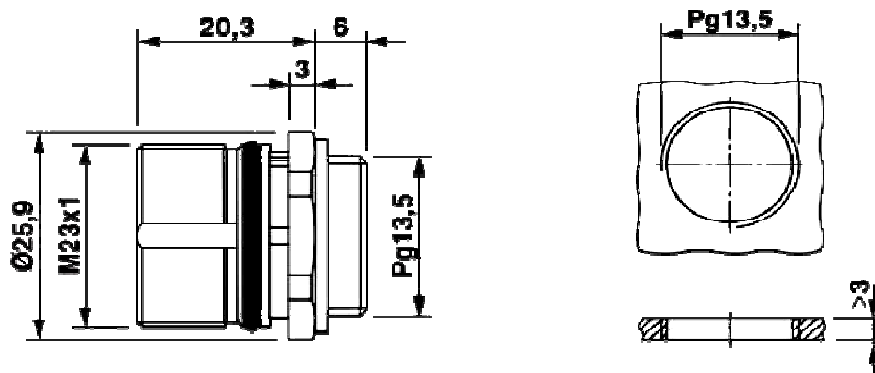


Part Number	CA-	X	X	X	X	X	X	X	X	X	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29										
Round flange connector with axial seal ring front mount												
round flange with thread M20x1.5 mm Ø									6	Y	0	0
with additional Lock nut									6	Y	N	0
with additional Lock nut and washer									6	Y	N	W






**Flange Connector front mount M23 Series CA**  
**fits all RC/UC/RF/CA Connectors with female coupling nut**  
**Shell style 6xx**

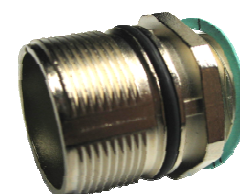


**Caps and accessories:** pages B-H-01...  
**Mounting tools:** N/A  
**Assembly instructions:** N/A  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

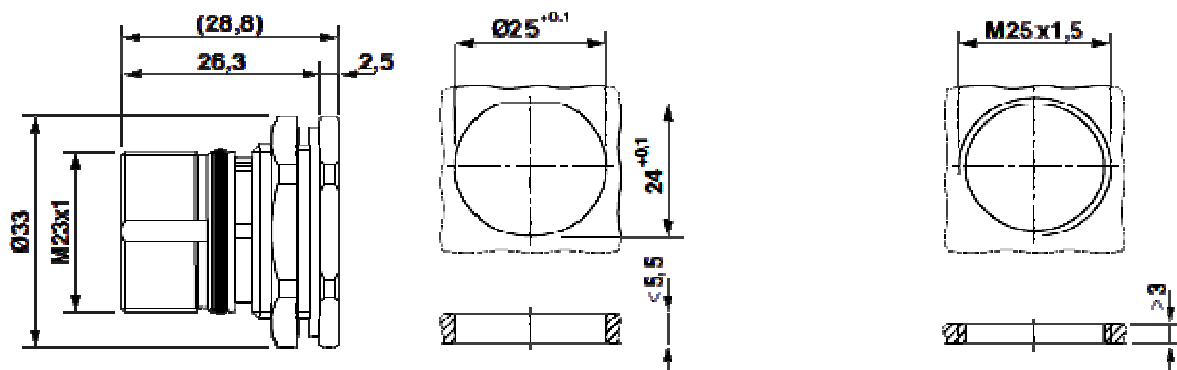
We also deliver as a connector set.  
 Connector with crimp insert - and  
 the contacts are  
 separate included.  
 Please ask for P/N



Part Number	CA-	X	X	X	X	X	X	X	X	X	X	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29											
Round flange connector with axial seal ring front mount													
round flange with thread PG13.5 ø									6	Z	0	0	
with additional Lock nut									6	Z	N	0	
with additional Lock nut and washer									6	Z	N	W	




**Flange Connector front mount M23 Series CA**  
**fits all RC/UC/RF/CA Connectors with female coupling nut**  
**Shell style Hxx**



**Caps and accessories:** pages B-H-01...  
**Mounting tools:** N/A  
**Assembly instructions:** N/A  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

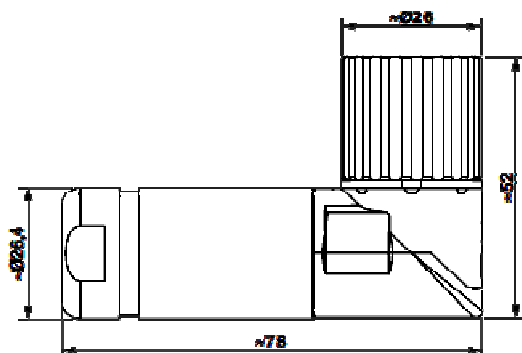
We also deliver as a connector set.  
 Connector with crimp insert - and  
 the contacts are  
 separate included.  
 Please ask for P/N



Part Number	CA-	X	X	X	X	X	X	X	X	X	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29										
Round flange connector with axial seal ring rear mount												
with hex nut from the front									H Z 0 0			
with additional Lock nut									H Z N 0			
with additional Lock nut and washer									H Z N W			



# **Shielded Cable Connectors M23 Series CA** **fits all RC/UC/RF/CA Connectors with male outside thread** **Shell style T0xx**



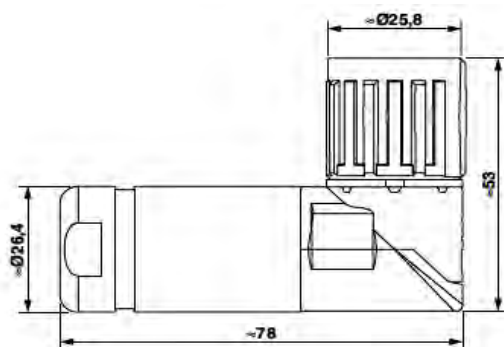
**Caps and accessories:** pages B-H-01...  
**Mounting tools:** pages B-E-01...  
**Assembly instructions:** page B-D-14A  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	T	0	X	X
		Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29										
Shielded cable connector with universal shielding sleeve												
Cable connector, straight		cable entry 3-14.5 mm Ø							D	N		
Cable connector, straight		cable entry 4-6.0 mm Ø							0	6		
Cable connector, straight		cable entry 6-10.0 mm Ø							0	7		
Cable connector, straight		cable entry 10-14.5 mm Ø							0	8		

# **Shielded Cable Connectors M23 Series CA** **fits all RC/UC/RF/CA Connectors with male outside thread** **Shell style T0xxS**




Speedcon Version



**Caps and accessories:** pages B-H-01...  
**Mounting tools:** pages B-E-01...  
**Assembly instructions:** page B-D-14A  
**Crimp tools for contacts:** pages B-B-01...  
**Crimp contacts:** pages B-C-01... (RC)

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



Part Number	CA-	X	X	X	X	X	X	X	T	0	X	X	S
	Here please fill in the first 7 digits of your desired RC connector insert (6-19 positions) from the page B-A-01 to page B-A-29												
Shielded cable connector with universal shielding sleeve													
Cable connector, straight	cable entry 3-14.5 mm Ø										D	N	
Cable connector, straight	cable entry 4-6.0 mm Ø										0	6	
Cable connector, straight	cable entry 6-10.0 mm Ø										0	7	
Cable connector, straight	cable entry 10-14.5 mm Ø										0	8	