





Member of the Phoenix Contact Group

S F Series Power M23

Shielded Connectors M23 Power 630 Volt

Shielded Power Connectors M23 Series SF Technical Data



Shell material

Machined components: Copper-Zinc alloy (CuZn)

die cast components: Zinc (GD-Zn)
Shell plating: Nickel (Ni) plated
Cable entry: max. 19 mm

Insulator

Connector inserts: Polyamide (PA66) UL 94 V0

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

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

Protection

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

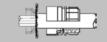


EMC shielding

		÷ ≥os. 3 °	**************************************	 Pos. 2	
Number of positions	6		8		
Number of contacts	5 + PE		4+3+PE		
Contact dia. (mm Ø)	2		1 2 2		
Rated current at 25° (A)	30		9/30		
Rated voltage (V)	630		250/630		
Test voltage (V)	6,000		4,000/6,000)	
Surge voltage category					
Installation altitude above sea level	3,000 m		3,000 m		
Wiring size AWG	24-14		28-18		
Wiring size AWG	24-12		24-12		



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







Shielded Power Connectors M23 Series SF Shell styles 8, 8L, 9, 9L, R4, F4, C0, CL, WK

SF-xxxxxxx8xxx	SF-xxxxxxx8Lxx	SF-xxxxxxxR4xx		
page C-K-04	page C-K-04	page C-K-04		
Cable connector, straight	Cable connector, straight	Cable connector, straight		
with female coupling nut	with female coupling nut	with female coupling nut		
cable entry max. 14 mm	cable entry max. 18 mm	open endbell M20x1.5		
universal shielding material	universal shielding material	universal shielding material		
style 8	style 8 long	style R4		
SF-xxxxxxx9Lxx	SF-xxxxxxxx9xx	SF-xxxxxxxF4xx		
page C-K-05	page C-K-05	page C-K-05		
Cable connector, straight	Cable connector, straight	Cable connector, straight		
with male thread	with male thread	with male thread		
cable entry max. 18 mm	cable entry max. 14 mm	open endbell M20x1.5		
universal shielding material	universal shielding material	universal shielding material		
style 9L	style 9	style F4		
SF-xxxxxxxC0xx	SF-xxxxxxxCLxx	SF-xxxxxxxWKxx		
page C-K-06	page C-K-06	page C-K-07		
Cable connector, straight	Cable connector, straight	Panel connector, straight		
with male thread	with male thread	with male thread		
cable entry max. 14 mm	cable entry max. 18 mm	flat design, axial O-ring		
front / rear mount flange	front / rear mount flange	square flange 28 mm □		
style C0	style CL			
Style 00	Style OL	style WK		



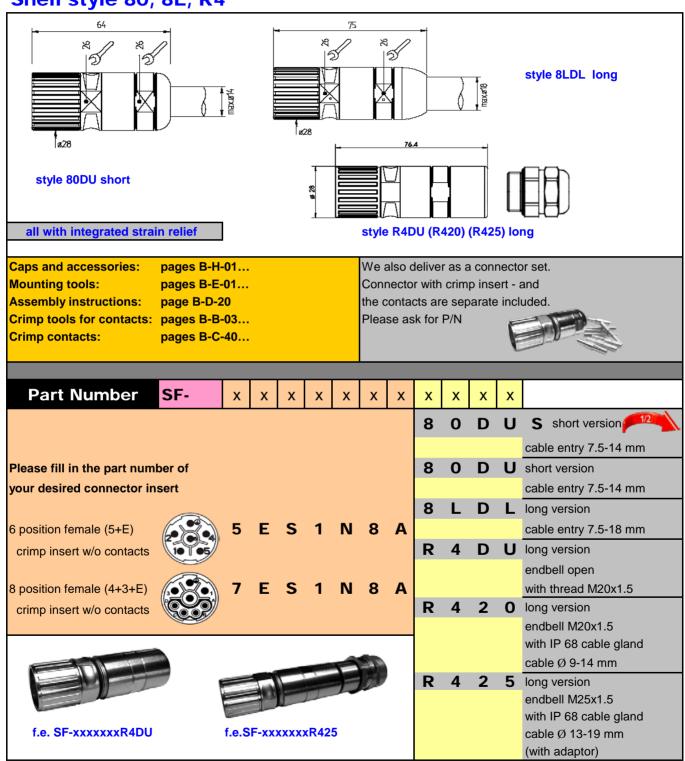
Shielded Power Connectors M23 Series SF Shell styles WA, AD, AC, AF, AK, A2, YW, Y0

SF-xxxxxxWAxx	SF-xxxxxxxAD(AC)xx	SF-xxxxxxxAF(AK)xx		
page C-K-07	page C-K-08	page C-K-09		
Panel connector, straight	Panel connector, right angled	Panel connector, right angled		
with male thread	with male thread	with male thread		
axial O-ring	axial O-ring, rotatable	axial O-ring, fixed		
square flange 26 mm ☐	square flange 26/28 mm ☐	square flange 26/28 mm 🗌		
style WA	style AD/AC	style AF/AK		
SF-xxxxxxxA2xx	SF-xxxxxxYWxx	SF-xxxxxxxY0x		
page C-K-10	page C-K-11	page C-K-11		
Panel connector, right angled	Panel connector, right angled	Panel connector, straight		
with male thread	with female coupling nut	with female coupling nut		
axial O-ring, fixed	axial O-ring, fixed	axial O-ring		
square flange 26 mm	square flange 26 mm □	square flange 26 mm □		
style A2	style YW	style Y0		

Shielded Power Connectors M23 Series SF



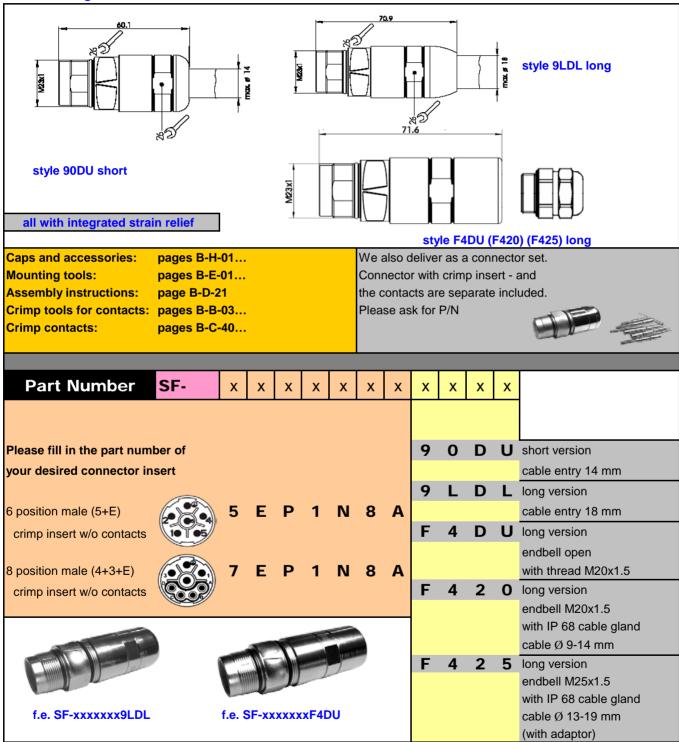
fits all SF Connectors with male thread Shell style 80, 8L, R4







fits all SF Connectors with female coupling nut Shell style 90, 9L, F4

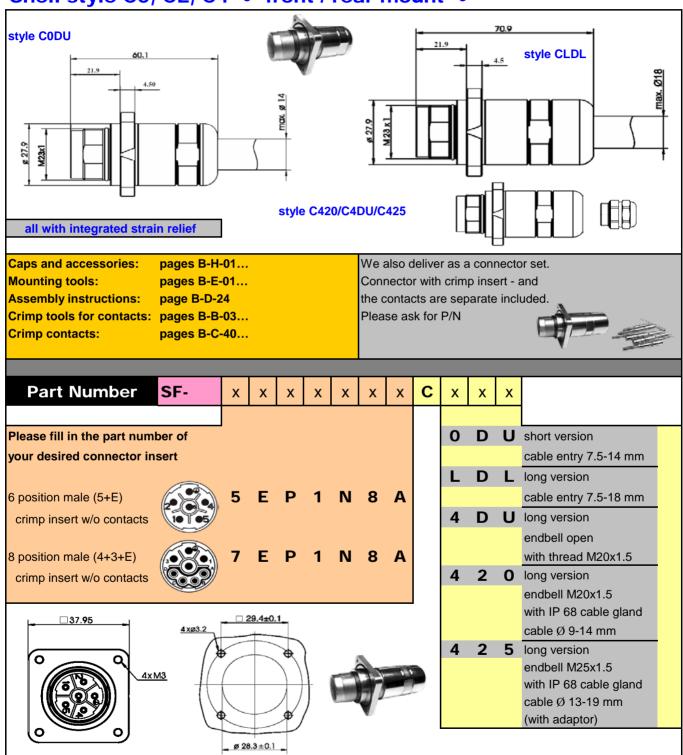






fits all SF Connectors with female coupling nut

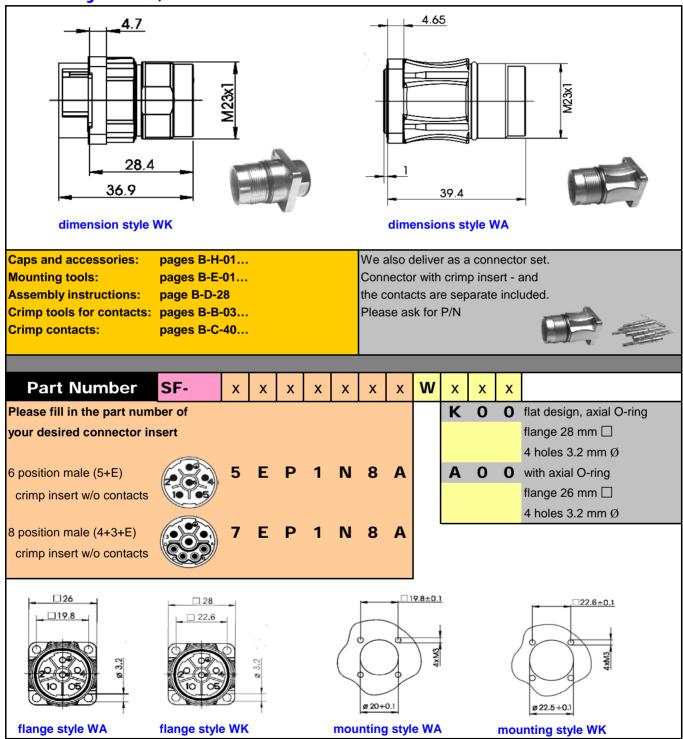
Shell style C0, CL, C4 • front / rear mount •







fits all SF Connectors with female coupling nut
Shell style WK, WA • front mount •

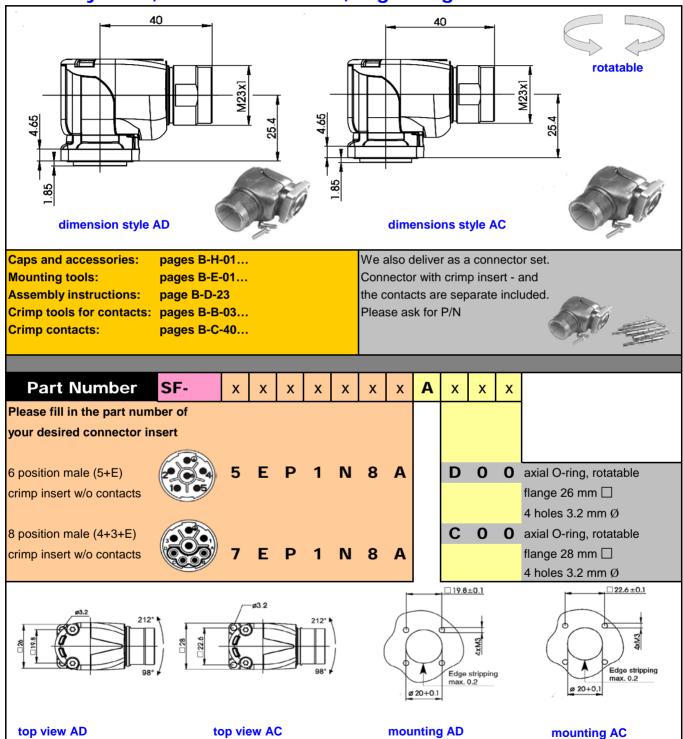






fits all SF Connectors with female coupling nut

Shell style AD, AC • front mount, right angled •

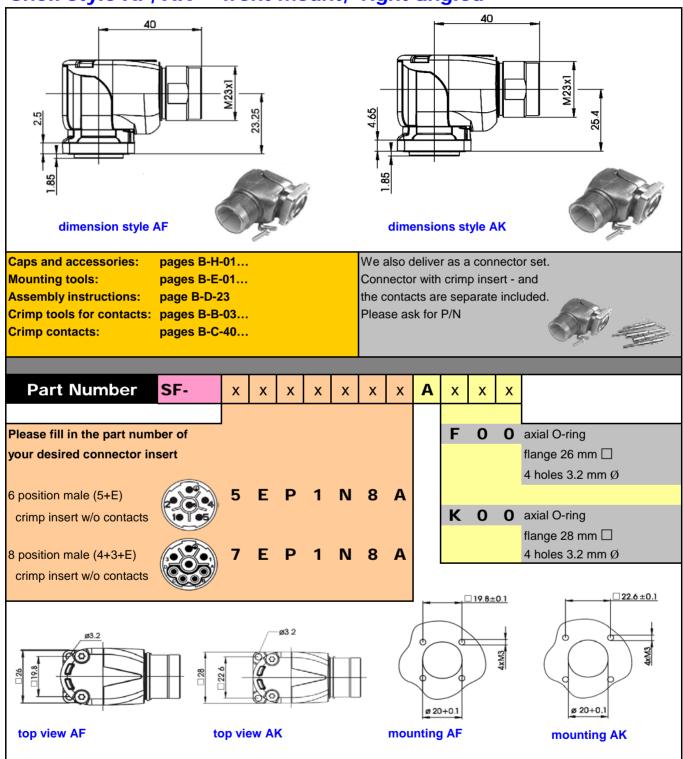






fits all SF Connectors with female coupling nut

Shell style AF, AK • front mount, right angled •

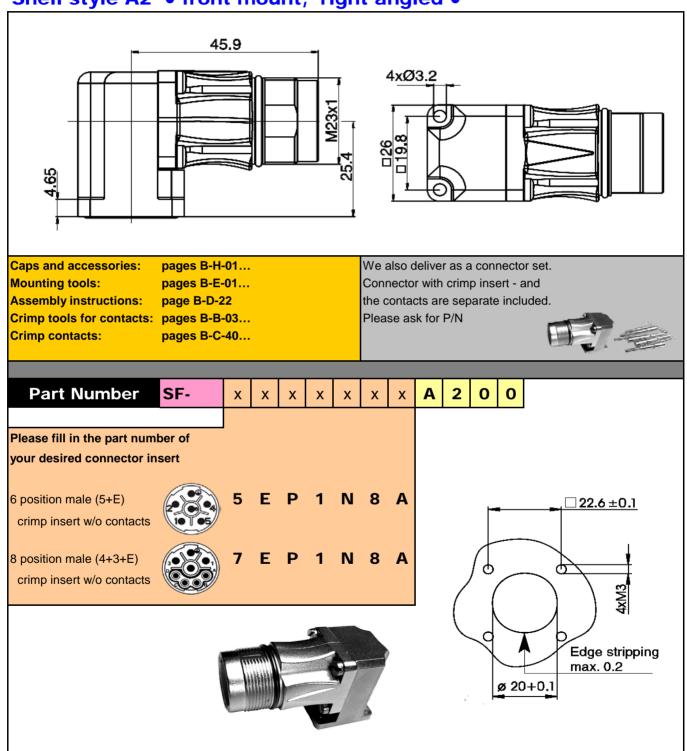






fits all SF Connectors with female coupling nut

Shell style A2 • front mount, right angled •



Shielded Power Connectors M23 Series SF



fits all SF Connectors with male thread

Shell style YW, YO • front mount, straight / right angled •

