





Member of the Phoenix Contact Group

S M Series M40

Shielded Power Connectors M40

Shielded Power Connectors M40 Series SM Technical Data



Shell material

Machined components: Copper-Zinc alloy (CuZn)

die cast components: Zinc (GD-Zn)
Shell plating: Nickel (Ni) plated
Cable entry: max. 26.5 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: M40 screw locking/Speedcon
Male receptacles: M40 screw locking/Speedcon

Protection

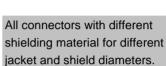
Protection class: IP 67 (mated) depends on which cable gland is used



EMC shielding

					<u>L</u>	
Number of positions		6		8		
Number of contacts		2 + 3 + PE		4+ 3 + PE		
Contact dia. (mm Ø)	2	2 + 3.6 + 3.	6	2 + 3.6 + 3.6		
Rated current at 25° (A)		9/65		9/65		
Rated voltage (V)		250/630		250/630		
Test voltage (V)	4	4,000/6,000)	4,000/6,000		
Surge voltage category		III				
Installation altitude above sea level		3,000 m		3,000 m		
Wiring size AWG		26-12		26-12		
Wiring size AWG		18-8		18-8		











Shielded Power Connectors M40 Series SM Shell styles 8, 8L, 8LS, 9, 9L, 9LS, AD, ADS, WA

SM-xxxxxx8xxx	SM-xxxxxxx8Lxx	SM-xxxxxxx8LxxS
page C-Q-05	page C-Q-06	page C-Q-06
Cable connector, straight	Cable connector, straight	Cable connector, straight
with female coupling nut	with female coupling nut	with female coupling nut
cable entry max. 25.5 mm	cable entry max. 25.5 mm	cable entry max. 26.5 mm
universal shielding material	universal shielding material	universal shielding material
		Speedcon
style 8	style 8L	style 8L/8S
SM-xxxxxxx9xxx	SM-xxxxxxx9Lxx	SM-xxxxxxx9LxxS
page C-Q-07	page C-Q-08	page C-Q-08
Cable connector, straight	Cable connector, straight	Cable connector, straight
with male thread	with male thread	with male thread
cable entry max. 25.5 mm	cable entry max. 25.5 mm	cable entry max. 26.5 mm
universal shielding material	universal shielding material	universal shielding material
style 9	style 9L	style 9L/9S
SM-xxxxxxxADxx	SM-xxxxxxxADxxS	SM-xxxxxxWAxx
page C-Q-09	page C-Q-09	page C-Q-10
Panel connector, right angled	Panel connector, right angled	Panel connector, straight
square flange with 4 holes	square flange with 4 holes	square flange with 4 holes
front mount, O-ring axial	front mount, O-ring axial	front mount, O-ring axial
with male thread, rotatable	with male thread, rotatable	with male thread
	Speedcon O O O O O O O O O O O O O O O O O O O	
style AD	style ADS	style WA



Shielded Power Connectors M40 Series SM Shell styles WT, AF, A2, C0, CL, Q0, QL, Y0, YW

SM-xxxxxxxWTxx	SM-xxxxxxxAFxx	SM-xxxxxxxA2xx
page C-Q-10	page C-Q-11	page C-Q-11
Panel connector, straight	Panel connector, right angled	Panel connector, right angled
square flange with 4 holes	square flange with 4 holes	square flange with 4 holes
front mount, O-ring axial	front mount, O-ring axial	front mount, O-ring axial
with male thread	with male thread, fixed	with male thread, fixed
Speedcon style WT	style AF	Speedcon style A2
SM-xxxxxxxC0xx	SM-xxxxxxxCLxx	SM-xxxxxxxQ0xx
page C-Q-12	page C-Q-12	page C-Q-13
Cable connector, straight	Cable connector, straight	Cable connector, straight
with male thread	with male thread	with male thread
cable entry max. 25.5 mm	cable entry max. 25.5 mm	cable entry max. 25.5 mm
with square flange, short body	with square flange, long body	round flange, short body
style C0	style CL	style Q0
SM-xxxxxxxQLxx	SM-xxxxxxxY0xx	SM-xxxxxxYWxx
page C-Q-13 Cable connector, straight	page C-Q-14 Panel connector, straight	page C-Q-14 Panel connector, right angled
with male thread	square flange with 4 holes	square flange with 4 holes
cable entry max. 25.5 mm	front mount, O-ring axial	front mount, O-ring axial
round flange, long body	with female coupling nut	with female coupling nut
style QL	style Y0	style YW



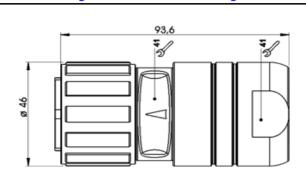
Shielded Power Connectors M40 Series SM Shell styles Y0xxS, YWxxS, A700

SM-xxxxxxxY0xxS	SM-xxxxxxxYWxxS	SM-xxxxxxxA700
page C-Q-14	page C-Q-14	page C-Q-15
Panel connector, straight	Panel connector, right angled	Panel connector, right agled
square flange with 4 holes	square flange with 4 holes	square flange with 4 holes
front mount, O-ring axial	front mount, O-ring axial	front mount, O-ring axial
with female coupling nut	with female coupling nut	with male thread
style Y0	style YW	rotatable style A700





fits all SM Connectors with male thread Shell style 8 short body





Caps and accessories: pages B-H-06...B-H-07

Mounting tools: N/A

Assembly instructions: page B-D-32
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set.

Connector with crimp insert - and the contacts are separate included.

Please ask for P/N

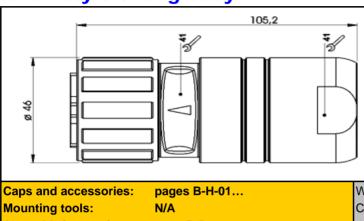


Part Number	SM-	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х
6 pos. (2+3+PE) female	TO OON	5	Ε	S	1	N	8	A				
8 pos. (4+3+PE) female	000	7	E	S	1	N	8	A				
Please fill in the P/N of your d	esired connect	or crim	np ins	ert wit	hout c	contac	ts.					
Connectors with integrated	d strain relief,	and										
seal ring for cable diamete	ers from 9.0 up	o to 1	2.5 m	nm					8	0	0	2
seal ring for cable diamete	ers from 12.5 (up to	17.0	mm					8	0	0	3
seal ring for cable diameter									8	0	0	3





fits all SM Connectors with male thread **Shell style 8 long body**





Assembly instructions: page B-D-32
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set. Connector with crimp insert - and the contacts are separate included.

Please ask for P/N



Part Number	SM-	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х	
6 pos. (2+3+PE) female	no o o	5	Ε	S	1	N	8	A						
8 pos. (4+3+PE) female	1000°	7	Ε	S	1	N	8	A						

Please fill in the P/N of your desired connector crimp insert without contacts.

Connectors with integrated strain relief, and....

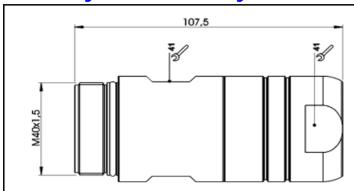
seal ring for cable diameters from 9.0 up to 14.0 mm		8	S	2	2	
seal ring for cable diameters from 14.0 up to 20.5 mm		8	S	2	3	
seal ring for cable diameters from 20.5 up to 26.5 mm		8	S	2	4	
seal ring for cable diameters from 9.0 up to 14.0 mm	new	8	L	3	2	S
seal ring for cable diameters from 14.0 up to 20.5 mm	new	8	L	3	3	S
seal ring for cable diameters from 20.5 up to 26.5 mm	new	8	L	3	4	S







fits all SM Connectors with female coupling nut Shell style 9 short body





Caps and accessories: pages B-H-01...

Mounting tools: N/A

Assembly instructions: page B-D-32
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set.

Connector with crimp insert - and the contacts are separate included.

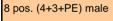
Please ask for P/N



6 pos. (2+3+PE) male



5 E P 1 N 8 A





7 E P 1 N 8 A

Please fill in the P/N of your desired connector crimp insert without contacts.

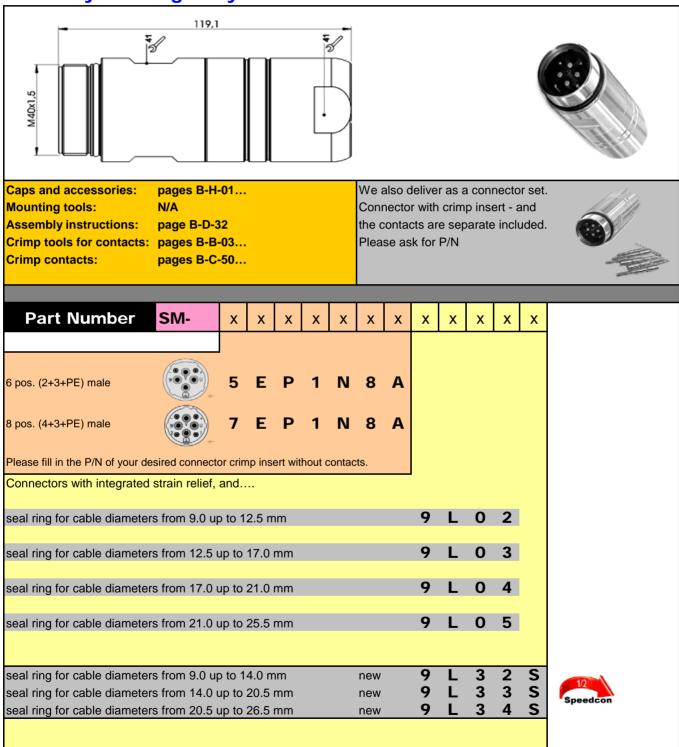
Connectors with integrated strain relief, and....

seal ring for cable diameters from 9.0 up to 12.5 mm	9	0	0	2
seal ring for cable diameters from 12.5 up to 17.0 mm	9	0	0	3
seal ring for cable diameters from 17.0 up to 21.0 mm	9	0	0	4
seal ring for cable diameters from 21.0 up to 25.5 mm	9	0	0	5





fits all SM Connectors with female coupling nut
Shell style 9 long body

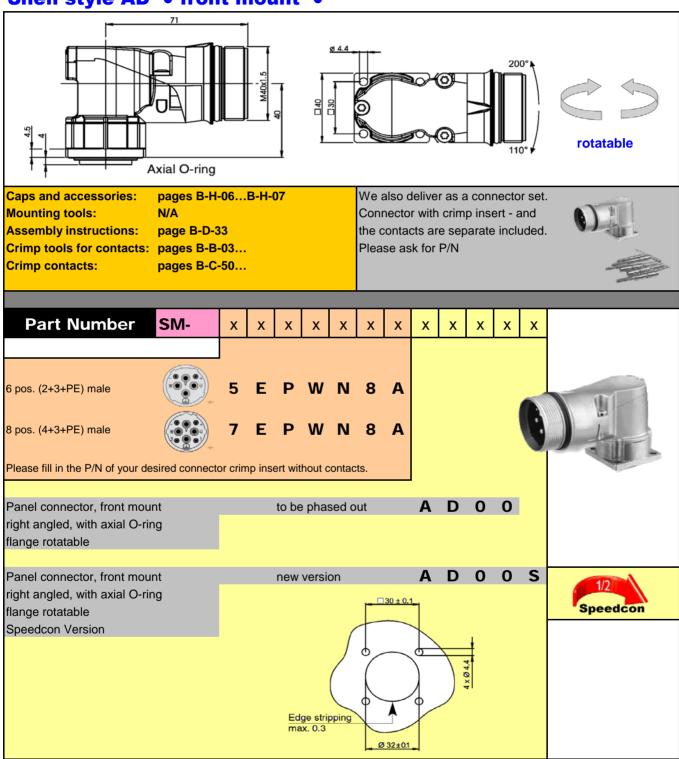






fits all SM Connectors with female coupling nut

Shell style AD • front mount •

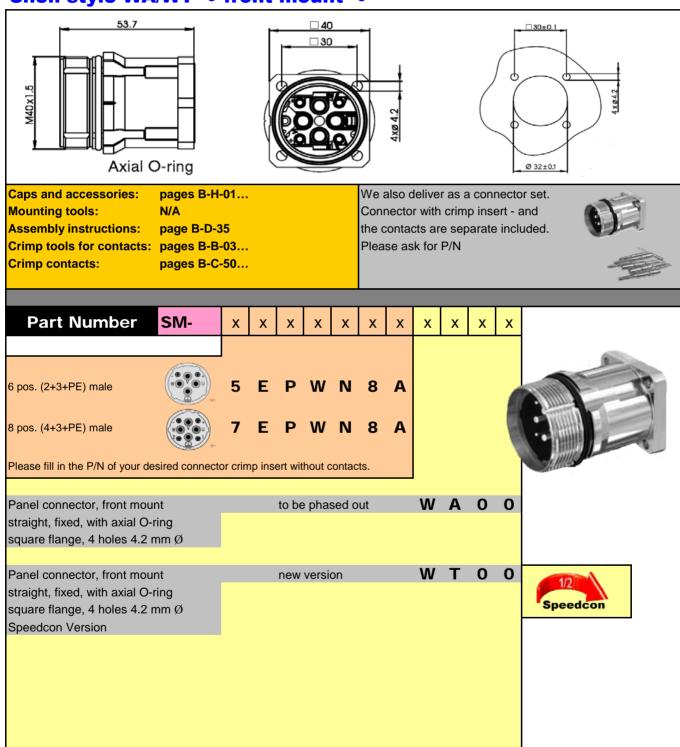


Shielded Power Connectors M40 Series SM



fits all SM Connectors with female coupling nut

Shell style WA/WT • front mount •

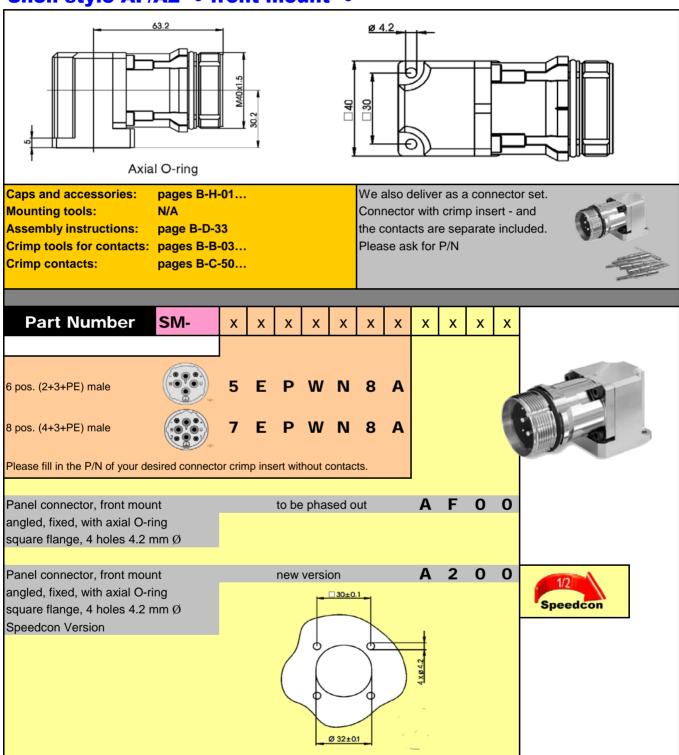






fits all SM Connectors with female coupling nut

Shell style AF/A2 • front mount •

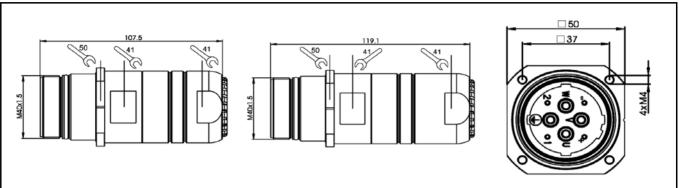


Shielded Power Connectors M40 Series SM



fits all SM Connectors with female coupling nut

Shell style C0, CL • rear mount •



Caps and accessories: pages B-H-01...

Mounting tools: N/A

Assembly instructions: page B-D-34
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set. Connector with crimp insert - and the contacts are separate included.

Please ask for P/N



6 pos. (2+3+PE) male



5 E P 1 N 8 A

8 pos. (4+3+PE) male



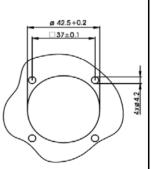
7 E P 1 N 8 A

Please fill in the P/N of your desired connector crimp insert without contacts.

Connectors with integrated strain relief, and....

short body, seal ring for cable diameters from 9.0 up to 12.5 mm	С	0	0	2
short body, seal ring for cable diameters from 12.5 up to 17.0 mm	С	0	0	3
short body, seal ring for cable diameters from 17.0 up to 21.0 mm	С	0	0	4
short body, seal ring for cable diameters from 21.0 up to 25.5 mm	С	0	0	5
long body, seal ring for cable diameters from 9.0 up to 12.5 mm	С	L	0	2
long body, seal ring for cable diameters from 12.5 up to 17.0 mm	С	L	0	3
long body, seal ring for cable diameters from 17.0 up to 21.0 mm	С	L	0	4
long body, seal ring for cable diameters from 21.0 up to 25.5 mm	C	L	0	5



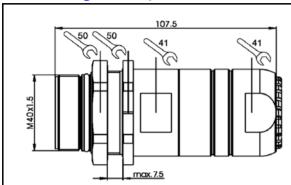


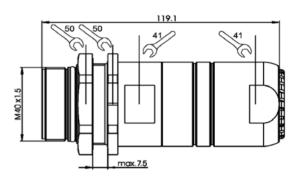
Shielded Power Connectors M40 Series SM



fits all SM Connectors with female coupling nut

Shell style Q0, QL • rear mount •





Caps and accessories: pages B-H-01...

Mounting tools: N/A

Assembly instructions: page B-D-34
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set. Connector with crimp insert - and the contacts are separate included.

Please ask for P/N



6 pos. (2+3+PE) male



5 E P 1 N 8 A

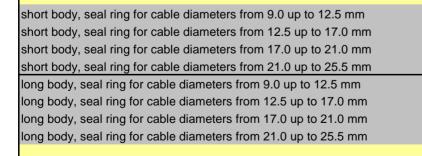
8 pos. (4+3+PE) male



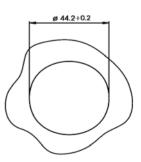
7 E P 1 N 8 A

Please fill in the P/N of your desired connector crimp insert without contacts.

Connectors with integrated strain relief, and....







2

3

4

5

0 3

0

0

0 2

0 4

0

0 0

Q 0

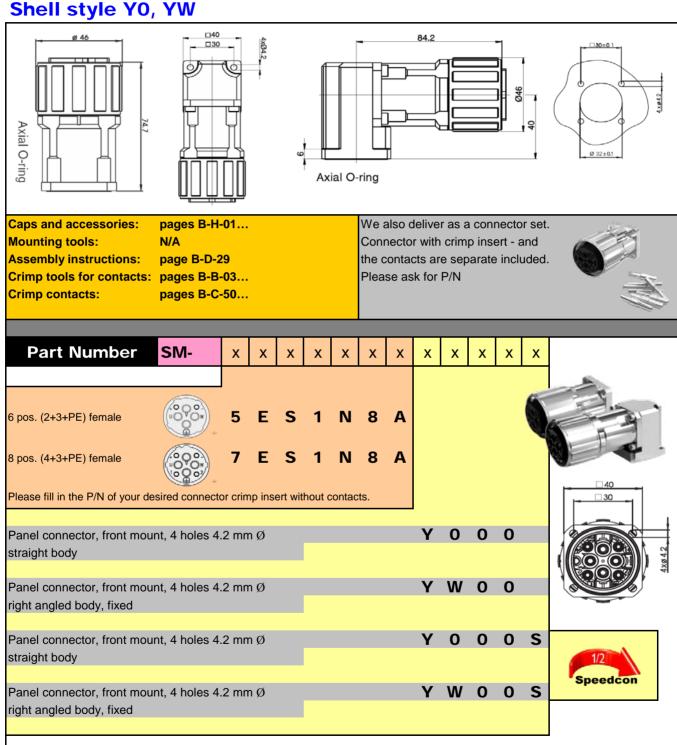
Q L

Q 0 0





fits all SM Connectors with male thread Shall style VO VW

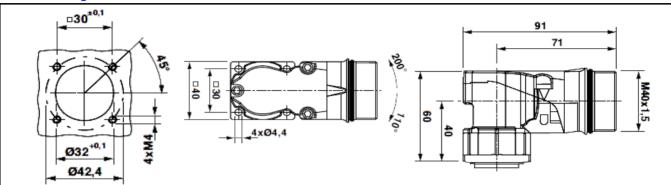






fits all SM Connectors with female coupling nut

Shell style A700



Caps and accessories: pages B-H-01...

Mounting tools: N/A

Assembly instructions: page B-D-33
Crimp tools for contacts: pages B-B-03...
Crimp contacts: pages B-C-50...

We also deliver as a connector set. Connector with crimp insert - and the contacts are separate included.

Please ask for P/N



Part Number	SM-	Χ	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	

6 pos. (2+3+PE) female



5 E S 1 N 8 A

8 pos. (4+3+PE) female



7 E S 1 N 8 A

Please fill in the P/N of your desired connector crimp insert without contacts.

Panel connector, front mount, 4 holes 4.2 mm Ø right angled body, rotatable

A 7 0 0



