





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

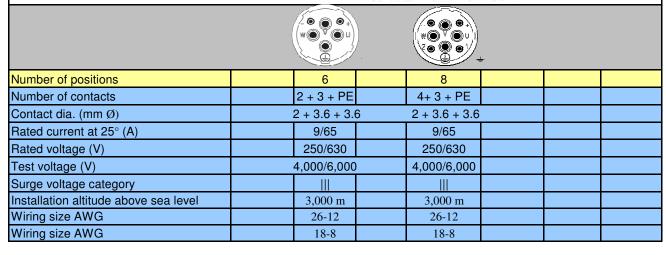
Female coupling nuts: M40 screw locking/Speedcon
Male receptacles: M40 screw locking/Speedcon

Protection

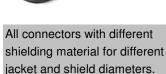
Protection class: IP 67 (mated) depends on which cable gland is used

















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

SM-xxxxxxx8xxx	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
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-xxxxxxxWAxx
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	
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
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-xxxxxxY0xx	SM-xxxxxxYWxx
page C-Q-13	page C-Q-14	page C-Q-14
Cable connector, straight with male thread	Panel connector, straight square flange with 4 holes	Panel connector, right angled 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
round manage, rong body	war remails soupling nat	With formallo occopining flat
style QL	style Y0	style YW



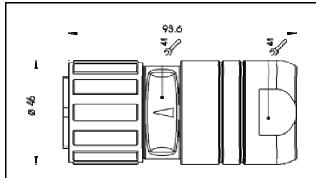
Shielded Power Connectors M40 Series SM Shell styles Y0xxS, YWxxS, A700

SM-xxxxxxxY0xxS	SM-xxxxxxYWxxS	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
12	1/2	rotatable _
Speedsen	Speedson	
		┃ ╚╡ ╌─ ╎┦╌ ┼ ╠╧╗┆═ ┼ ╂ ┼╌╫
style Y0	style YW	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



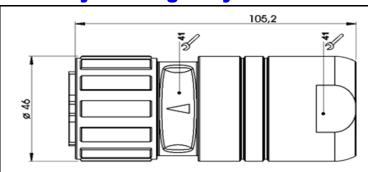
Part Number	SM-	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	1000	_										
6 pos. (2+3+PE) female	8	5	E	S	1	N	8	A				
	(000	_	_	_	4	N.						
8 pos. (4+3+PE) female	(000)	′	E	3	1	N	8	A				
Please fill in the P/N of your d	lesired connect	or crin	np ins	ert wit	thout o	contac	ts.					
, , , , , , , ,			-						ı			
0												
Connectors with integrated	a strain relief,	and	•••									

seal ring for cable diameters from 9.0 up to 12.5 mm	8	0	0	2
seal ring for cable diameters from 12.5 up to 17.0 mm	8	0	0	3
seal ring for cable diameters from 17.0 up to 21.0 mm	8	0	0	4
seal ring for cable diameters from 21.0 up to 25.5 mm	8	0	0	5





fits all SM Connectors with male thread Shell style 8 long 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

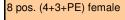


Part Number SM-	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х

6 pos. (2+3+PE) female



5 E S 1 N 8 A





7 E 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....

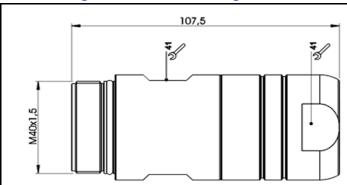
se	eal ring for cable diameters from 9.0 up to 14.0 mm	8	S	2	2	
se	eal ring for cable diameters from 14.0 up to 20.5 mm	8	S	2	3	
se	eal ring for cable diameters from 20.5 up to 26.5 mm	8	S	2	4	
se	eal ring for cable diameters from 9.0 up to 14.0 mm new	8	L	3	2	S
se	eal ring for cable diameters from 14.0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

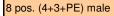
Please ask for P/N



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.

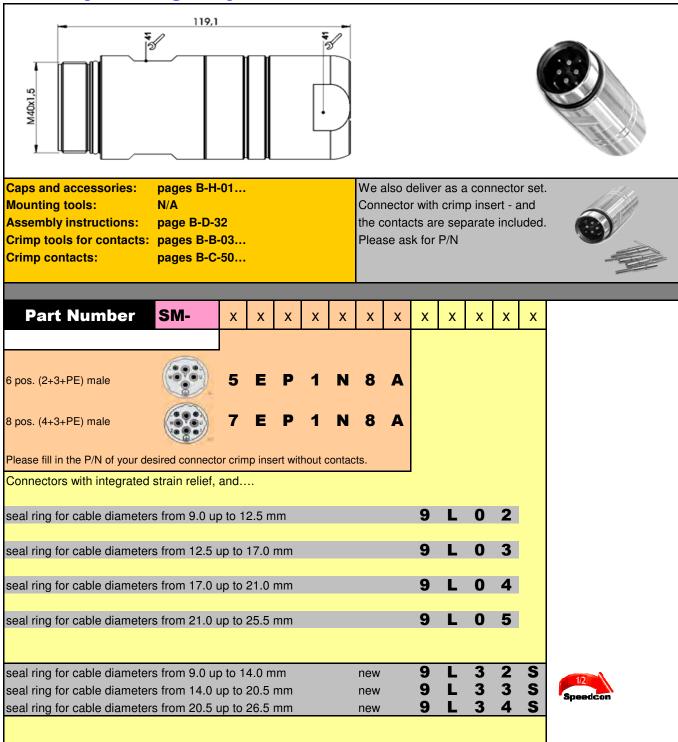
Connectors with integrated strain relief, and....

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

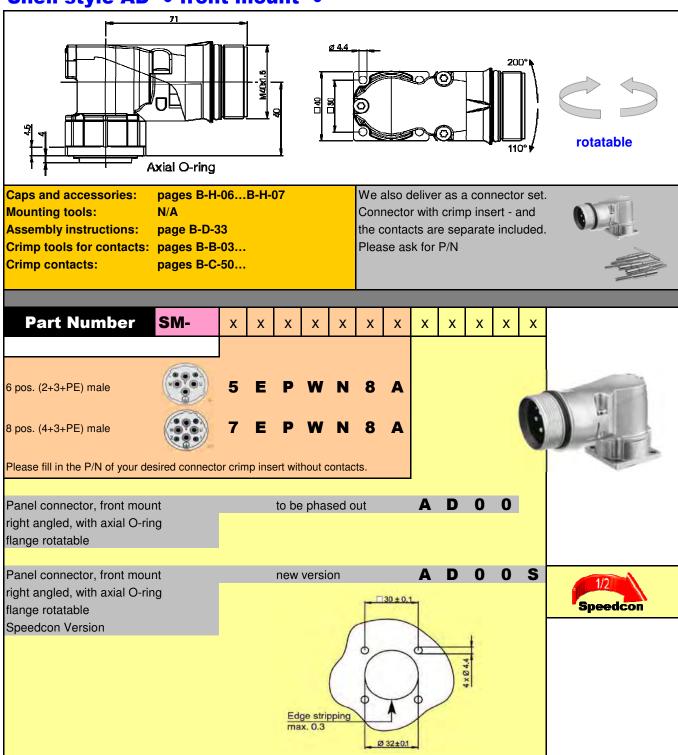






fits all SM Connectors with female coupling nut

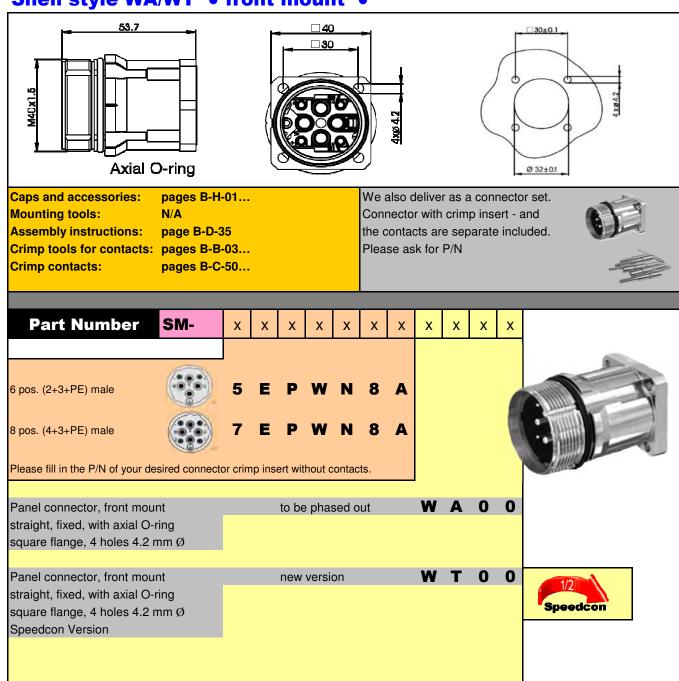
Shell style AD • front mount •





fits all SM Connectors with female coupling nut

Shell style WA/WT • front mount •

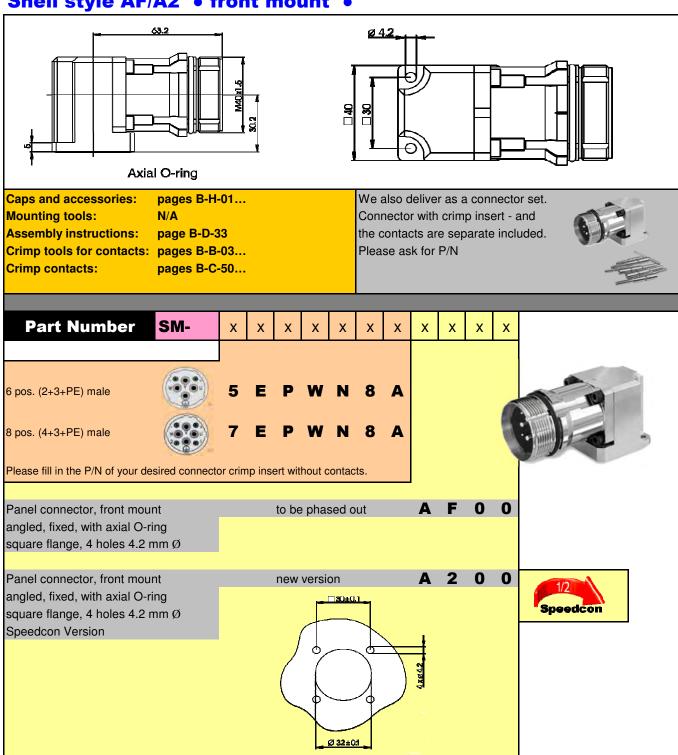






fits all SM Connectors with female coupling nut

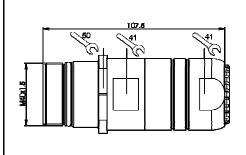
Shell style AF/A2 • front mount •

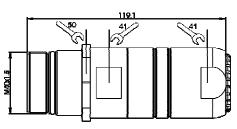


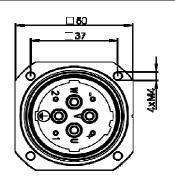


fits all SM Connectors with female coupling nut

Shell style C0, CL • rear mount •







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

Mounting tools:

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.

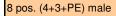
Please ask for P/N



Part Number SM-Χ Χ

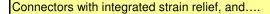
6 pos. (2+3+PE) male



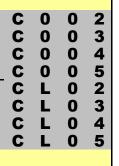




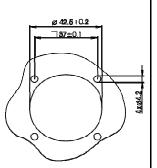
Please fill in the P/N of your desired connector crimp insert without contacts.



short body, seal ring for cable diameters from 9.0 up to 12.5 mm
short body, seal ring for cable diameters from 12.5 up to 17.0 mm
short body, seal ring for cable diameters from 17.0 up to 21.0 mm
short body, seal ring for cable diameters from 21.0 up to 25.5 mm
long body, seal ring for cable diameters from 9.0 up to 12.5 mm
liong body, sear mig for cable diameters from 9.0 up to 12.5 min
long body, seal ring for cable diameters from 12.5 up to 12.5 mm
long body, seal ring for cable diameters from 12.5 up to 17.0 mm



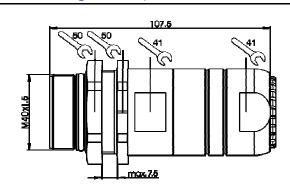


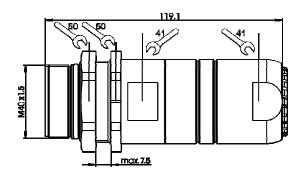




fits all SM Connectors with female coupling nut

Shell style Q0, QL • rear mount •





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

Mounting tools:

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



Part Number SM-Χ

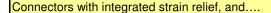
6 pos. (2+3+PE) male

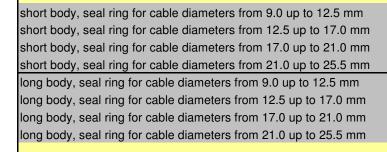


8 pos. (4+3+PE) male

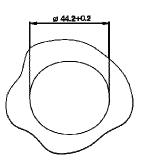


Please fill in the P/N of your desired connector crimp insert without contacts.









2

3

4

5

2 0

3 0

4

0

0

0

0

0

0 0

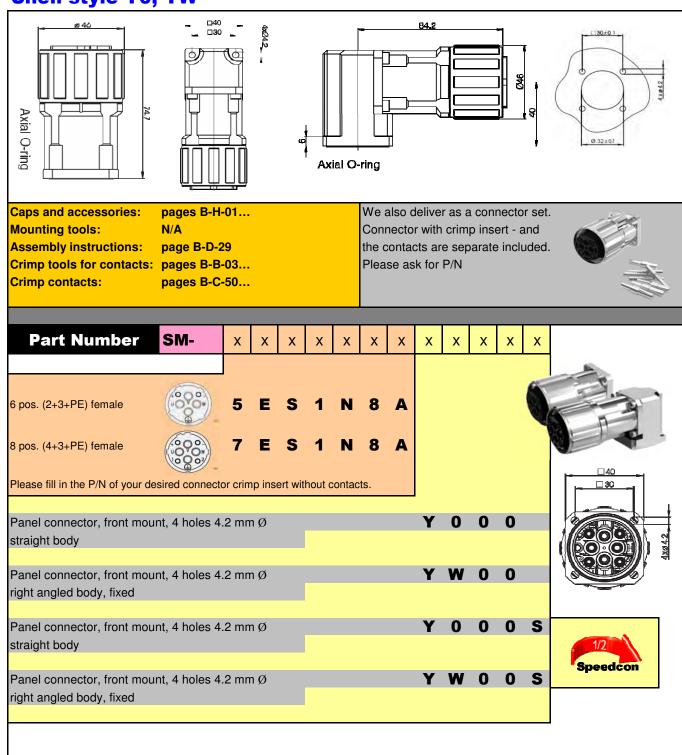
Q

Q



fits all SM Connectors with male thread

Shell style Y0, YW

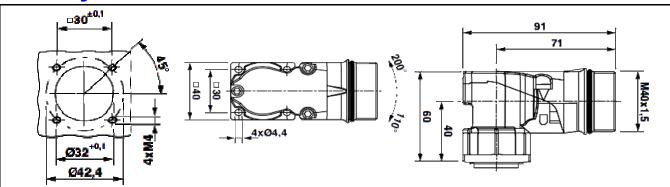






fits all SM Connectors with female coupling nut

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



6 pos. (2+3+PE) female

600

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 \emptyset right angled body, rotatable

A 7 0 0

