

# M40 Power Connectors • P70 Series SM

## Technical Data

### Mechanical data:

Housing material:	Machined component: copper-zinc alloy (CuZn), die-cast part: zinc (GD-Zn)
Housing surface:	nickel-plated; panel mounting connector (receptacle): nickel-plated/thick-layer passivated (can be painted over)
Insulating body:	Polyamide (PA 66)
Contact material:	Copper-zinc alloy (CuZn)
Contact surface:	Nickel-plated (Ni) with gold layer (Au)
Contact connection type:	Crimp version
Gasket and O-ring:	Fluorine rubber (FPM)
Ambient temperature:	-20°C to +125°C
Conductor entry:	External cable diameter 9 - 26.5 mm, shielded
Locking method:	M40 x 1.5 screw locking / M40 SPEEDCON quick locking
Mechanical insertion/ withdrawal cycles:	Standard: 50
Degree of protection:	IP67 in locked state
Approvals:	<b>An overview of the listed connectors for UL, cUL and VDE is available upon request.</b>

### Electrical data:

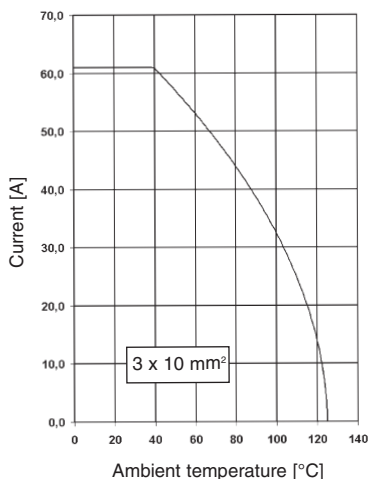
Number of positions	6 (2 + 3 + PE)			8 (4 + 3 + PE)		
Contacts	2	3	PE	4	3	PE
Contact Ø	[mm] 2	3.6	3.6	2	3.6	3.6
Conductor cross section, crimp contacts, machined:						
Short version, cable Ø max. 25.5 mm	[mm <sup>2</sup> ] 0.14-4.0	0.75-16	0.75-16	0.14-4.0	0.75-16	0.75-16
Long version, cable Ø max. 26.5 mm	[mm <sup>2</sup> ] 0.14-4.0	0.75-16	0.75-16	0.14-4.0	0.75-16	0.75-16
Panel mounting connectors (receptacles)	[mm <sup>2</sup> ] 0.14-4.0	0.75-10	0.75-10	0.14-4.0	0.75-10	0.75-10
Nominal current per contact at 25°C <sup>1)</sup>	[A] 30	70		30	70	

### Data according to DIN EN 61984:2001

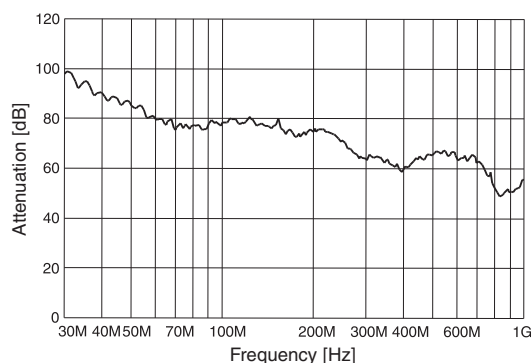
Nominal/operating voltage	[V AC / DC] 250	630	250	630
Test/surge voltage	[kV] 4	6	4	6
Surge voltage category	III		III	
Contamination class	3		3	
Installation altitude	[m] up to 3000	up to 3000		

<sup>1)</sup> The effective current carrying capacity is to be determined via a derating curve depending on the application, if necessary.

**Derating curve**  
for 3 x 10 mm<sup>2</sup>  
based on  
DIN EN 60512-5-2  
(cable connector  
mounted)



**Shield attenuation curve** based on DIN EN 50289-1-6  
(SPEEDCON cable connector and panel mounting connector angled  
on base plate)



**Contact chamber numbering**  
(view of plug-in side)

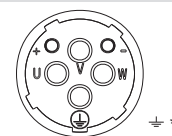
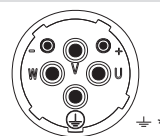
**Number of positions**

**Male**

**Female**

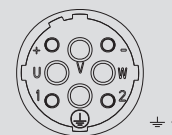
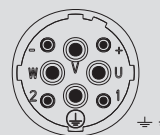
**6-position**  
(2+3+PE)

**Crimp**



**8-position**  
(4+3+PE)

**Crimp**



\* with grounding contact