

# M16 Panel Mounting Connectors • Series PV

## Technical Data

### Mechanical data:

Housing material:	Machined component: copper-zinc alloy (CuZn)
Housing surface:	Nickel-plated
Insulating body:	Polyamide (PA 66); storage at 15 – 35 °C, 40 – 70 % rel. humidity
Contact material:	Copper-zinc alloy (CuZn)
Contact surface:	Nickel-plated (Ni) with gold layer (Au)
Contact connection type:	Solder cup, dip solder pin
Gasket and O-ring:	Fluorine rubber (FPM)
Ambient temperature:	-20 °C up to +125 °C
Locking method:	M16 screw locking
Mechanical insertion/ with drawal cycles:	Standard: 50, more upon request
Degree of protection:	IP67 in locked state

### Electrical Data:

Number of positions	8	10	12	14
Contacts (male)	8	10	12	14
Contact Ø [mm]	1	1	1	1
Conductor cross sections				
Solder connection max. [mm <sup>2</sup> ]	0.34	0.34	0.34	0.34
Nominal current per contact at 25 °C <sup>1)</sup> [A]	6	6	6	6

### Data according to DIN EN 61984:2001

Nominal/operating voltage [V AC / DC]	100	100	100	100
Test/surge voltage [kV AC]	0.8	0.8	0.8	0.8
Surge voltage category	II	II	II	II
Contamination class <sup>2)</sup>	3	3	3	3
Installation altitude [m]	up to 2000	up to 2000	up to 2000	up to 2000

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

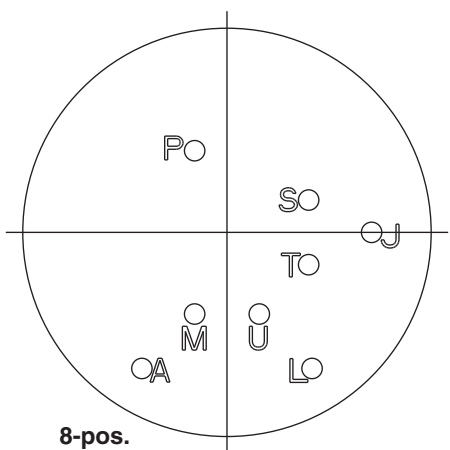
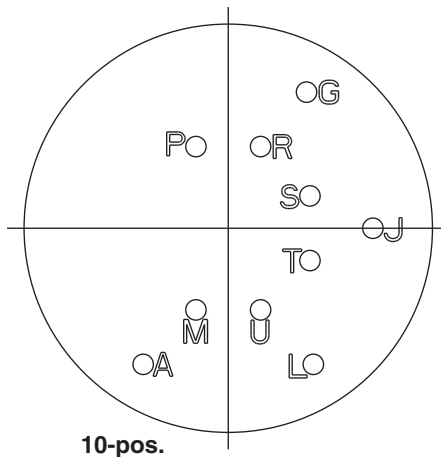
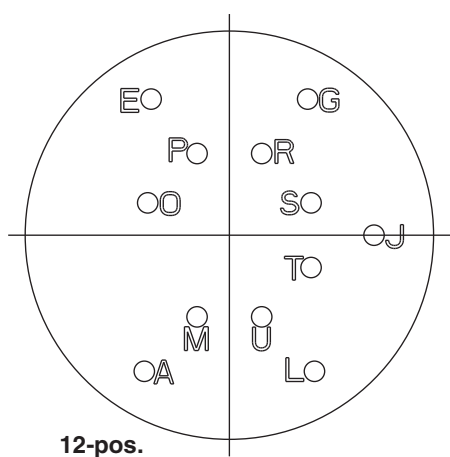
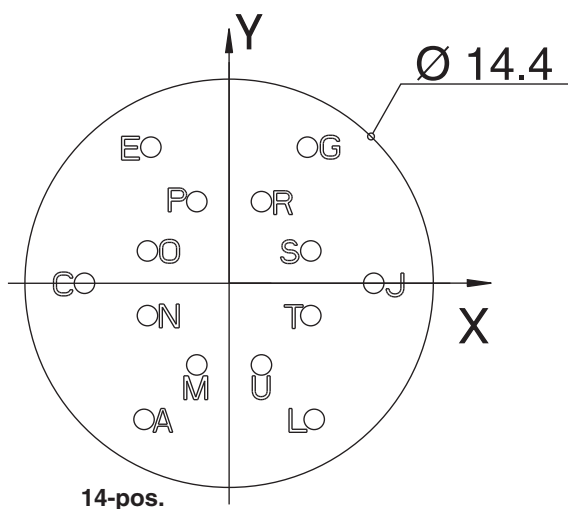
2) The specified values assume that the connector pair is correctly locked and is only disconnected for testing and maintenance purposes. If the connector is unlocked and exposed to ambient conditions and if there is a danger of contamination, the connector must be sealed using a protective cap ≥ IP54.

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

Number of positions	8	10	12	14
Solder contacts (male)				
Dip solder contacts (male)				

Unlike plugs, connectors must not be plugged in or unplugged under load.

**M16 Panel Mounting Connectors • Series PV**  
**PC Board Layout**  
**Dip Solder Contacts Male**



Bore dia. 0.8 ± 0.05 mm		
	X	Y
A	- 2.5	- 4
C	- 4.25	0.00
E	- 2.3	4
G	2.3	4
J	4.25	0.00
L	2.5	- 4
M	- 0.95	- 2.4
N	- 2.4	- 0.95
O	- 2.4	0.95
P	- 0.95	2.4
R	0.95	2.4
S	2.4	0.95
T	2.4	- 0.95
U	0.95	- 2.4