

M58 Power Connectors • P150 Series SL

Technical Data

Mechanical data:

Housing material:	Machined part, aluminum
Housing surface:	Aluminum, anodized
Insulating body:	Polyamide (PA 66)
Contact surface:	Power and PE contacts: silver-plated (Ag), signal contacts: gold-plated (Au)
Contact connection type:	Crimp version
Gasket and O-ring:	Fluorine rubber (FPM)
Ambient temperature:	-20°C up to +120°C
Cable entry:	Cable connectors and cable connecting receptacles for external cable diameters of 17- 36 mm, shielded
Locking method:	Screw locking M58 x 2
Mechanical insertion/ withdrawal cycles:	Standard: 50, 500 on request
Degree of protection:	IP67 in locked state
Approvals:	An overview of the listed connectors for VDE is available upon request.

Electrical data:

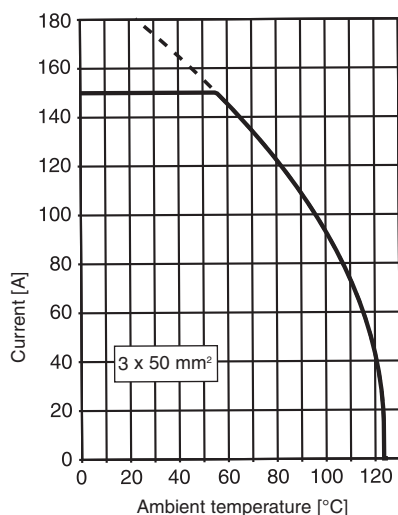
Number of positions	6 (2 + 3 + PE)			8 (4 + 3 + PE)		
Contacts	2	3	PE	4	3	PE
Contact Ø [mm]	1.6	10.0	10.0	1.6	10.0	10.0
Conductor cross sections						
Cable Ø 17-36 mm [mm ²]	0.75-1.5	10-50	10-50	0.75-1.5	10-50	10-50
Nominal current per contact at 25 °C ¹⁾ [A]	12	150		12	150	

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 2000		up to 2000

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

Derating curve
(for 3 x 50 mm²)
based on
DIN EN 60512-5-2
(Cable connector
mounted)



Shield attenuation curve based on DIN EN 50289-1-6
In preparation

Contact chamber numbering
(view of plug-in side)

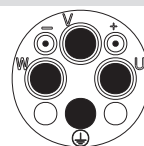
Number of positions

Male

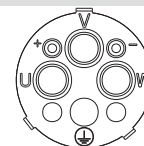
Female

6-position
(2+3+PE)

Crimp



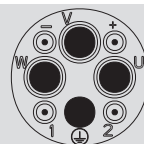
± *



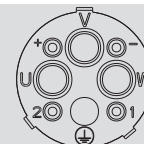
± *

8-position
(4+3+PE)

Crimp



± *



± *

* with
grounding contact