

ground|mate®



Pluggable earth/grounding contact

Tested type approved acc. to VDE test and certification institute:
Declaration of usability of Radsok® contacts as a grounding contact or a connection for grounding termination



Test and test report based on IEC 61984 and DIN VDE 0660-500
(For test details please see report reference No 426000-1431-0016/79471 dated 03.05.2007)

**Connectors – Safety requirements and test, rated voltages 50 V – 1000 V;
Rated current up to 125 A for each pole**

Test results acc. to DIN VDE 0660-500

Description of test item:

Radsok® high current connector for pins without thread
Radsok® high current connector for pins with thread M6 or M8

Device under test:

Radsok® 6 mm with crimped cable 10 mm²
Radsok® 8 mm with crimped cable 35 mm²

Contact resistance:

Pin with thread M6:	0.22 mΩ
Pin 6 mm without thread:	0.16 mΩ
Pin with thread M8:	0.14 mΩ
Pin 8 mm without thread:	0.11 mΩ

Temperature range (IEC 60512):

-40 ... +125°C

Short term current - and surge current stress (I_{PK}, I_{CW}, DIN VDE0660-500)

Test values

Short term current	2.25 kA	4.5 kA	20 kA
Short circuit current (AC)	1.5 kA	3 kA	10 kA
Duration of short circuit	1 s	1 s	1 s

Depending on the respective application the duration of short circuit stress needs to be adjusted.
For shorter turn-off times of protective devices (typical in the range of milliseconds, according to VDE 0641 Part 11 / 8.92 EN 60 898 < 0,1 s) higher short circuit currents are applicable.

Examples subject to the test report (with declaration of rated peak I_{PK} and duration of short circuit):

Radsok 6 mm

20 kA – 20 ms short circuit strength
8 kA – 228 ms short circuit strength
4.78 kA – 633 ms short circuit strength

Radsok 8 mm

20 kA – 179 ms short circuit strength
8.14 kA - 745 ms short circuit strength