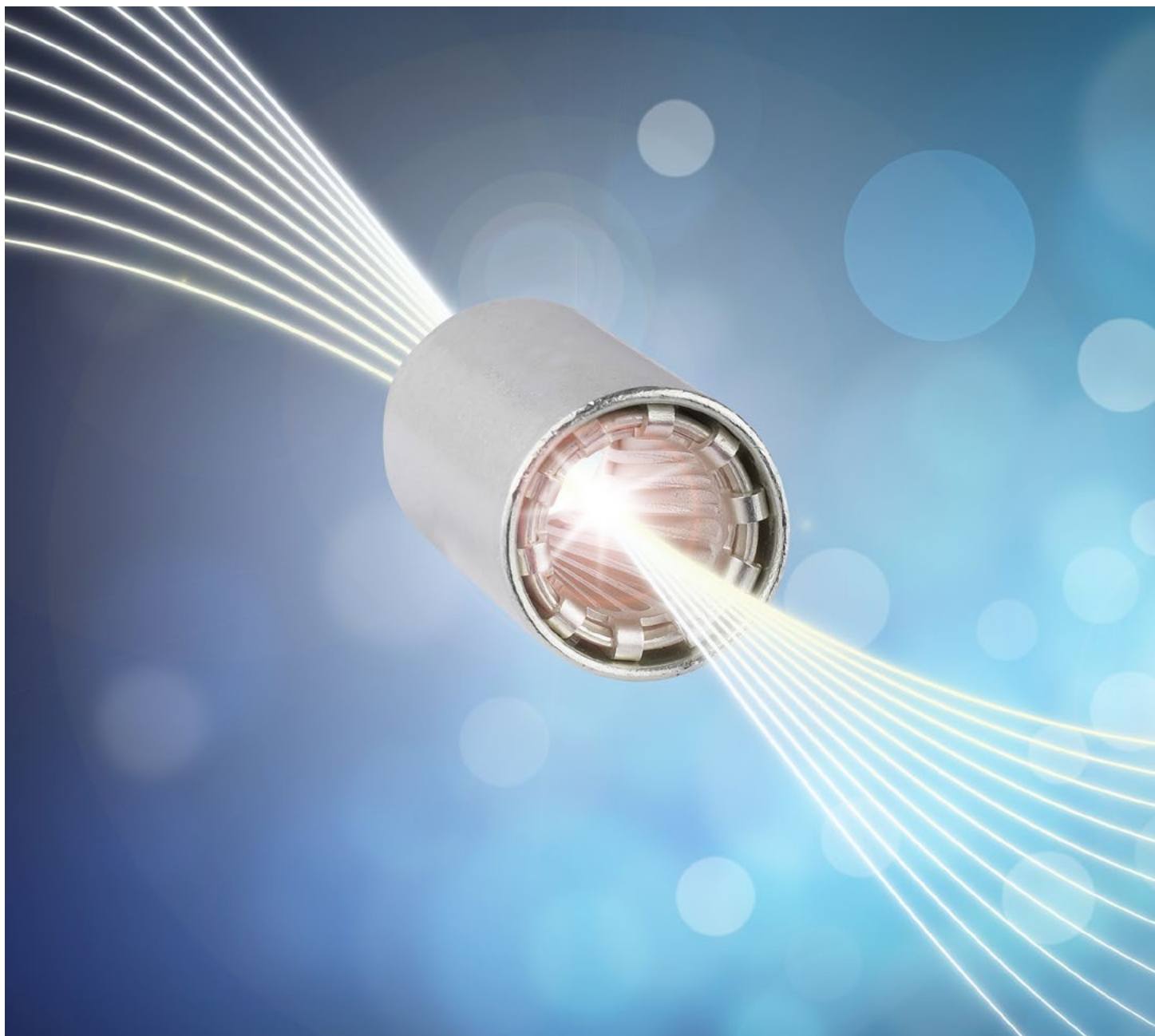


# Radsock®

## High Power Connector



# Note from the CEO



**Ladies and Gentlemen,**

For over 75 years Amphenol has enjoyed success as the interconnection technology provider of choice to industry-leading companies around the world. One of our key strategic areas of focus has been and is the Industrial market. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, ChipCard Readers - enabling smarter, faster and better technologies to connect products to customer solutions.

The Industrial market footprint of Amphenol covers over facilities in more than 12 different European countries and more than 30 countries worldwide. Our successful expansion into new regions as well as new industrial applications is a direct reflection of our agile, entrepreneurial management team and our unwavering commitment to execute Amphenol's strategies for the benefit of our customers, shareholders and employees.

Thank you for partnering with Amphenol. Our entire organization is at your service.

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the end.

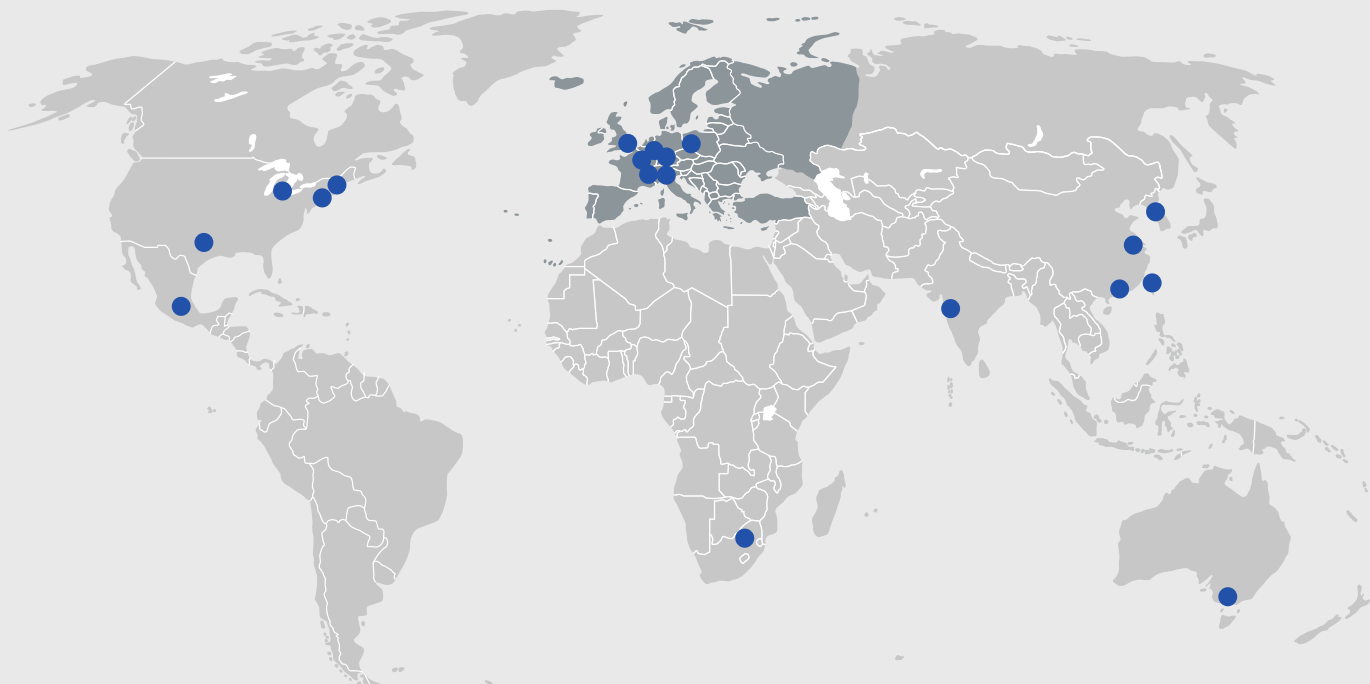
R. Adam Norwitt  
President and CEO, Amphenol Corporation

# Make use of the best Use our global resources

“Think global, act local!” Independently from where you are in Europe, we offer you our global expertise and great variety of products and technologies. And with comfort with your personal contact. Our numerous European offices are your access to our global resources.

## OUR OFFICES ARE EVERYWHERE

FRANCE	CHINA	AUSTRALIA	SOUTH AFRICA
GERMANY	KOREA	MEXICO	INDIA
UNITED KINGDOM	TAIWAN	USA	ITALY



Radsok

SECURITY, RELIABILITY AND COMFORTABLE SERVICE FROM ONE SOURCE.



# More time for important things: benefit from our service and diversification

Enjoy security, reliability and comfortable service from one source. INDUSTRIAL@AMPHENOL offers one of the most individual and most diversified programmes in the market – exclusively for industrial customers. Access all positions of the Amphenol group through your personal expert adviser.



## WIDE PRODUCT RANGE

Take advantage of a choice of Amphenol products. Our broad product portfolio offers individual solutions from more than 85 member companies in the global Amphenol group.



## EXCLUSIVENESS AND FLEXIBILITY

One face to the customer: every inquiry is handled on an individual service level by your personal key account service partner. This ensures maximum transparency and best-in-class flexibility in the whole process.



## QUALITY

Interconnect systems need reliability, speed and flawless data transmission. We continuously test and guarantee the required standard in our products – and also in our personal services.



## INDIVIDUAL SOLUTIONS

Your project requires an individual solution that is not available on the shelf? As your think tank and discussion partner we provide engineering support and solution-oriented development for your tailor-made Amphenol product.



## SPEED AND AVAILABILITY

Smart and intelligent processes are the secret behind our programme. Flexible planning and distribution, perfect logistics and highest availability are our key factors for best customer service.



## GLOBAL KEY ACCOUNT SERVICE

Our key account service is your individual entrance to global Amphenol products and services. More than 85 Amphenol companies around the world offer an extensive range of technologies and products. We offer access to our worldwide resources through one individual contact person.

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More and more electrical and electronic components require higher performance compared to standard pin and socket connectors. Large amounts of energy. Conventional connection technology is not able to meet such requirements. Pluggable connections are often no longer able to be applied. Amphenol offers a new generation of contact elements: Radsok. The hyperbolic construction offers many advantages such as contact coverage of up to 65 %, absorption of vibrations as the "grid." See also the picture on the next page as well as durable stability of the contact elements. Current transfer of several hundred Ampere in addition to a high number of mating cycles is not a problem.

RADSOK means Radial Socket. The RADSOK terminal is a patented high performance hyperboloid socket style electrical contact system for applications >30 amps.. Hyperboloid connectors offer superior

## Key Features

### LOW CONTACT RESISTANCE AND HIGH CURRENT CAPACITY

The grid provides a greater surface area of electrical contact between the contacting element than standard contacts. RADSOK contacts do not relax as a result of repeated insertion, which occurs in standard terminals. The associated millivolt loss that is common in standard terminals due to repeated insertion relaxation does not occur with RADSOK. The result is superior electrical transfer that does not deteriorate from repeated insertion.

### VIBRATION RESISTANCE / RESISTANCE TO INSERTION FORCE

The hyperbolic grid of the RADSOK terminal assures full contact with an inserted pin. Tests have confirmed that when subjected to vibration, this hyperbolic elastic grid maintains electrical contact. This unique feature also provides for some axial misalignment without sacrifice of electrical contact.

### EXCELLENT DURABILITY

For pin applications require repeated insertion/extraction cycles. Due to its unique design and used materials the RADSOK contact is ideally fitted for applications with a high number of mating cycles and maintaining ability to carry high current capacity and withstand vibrations.

### SELF-CLEANING / LOW CONTACT RESISTANCE AND HIGH CURRENT

When talking about connectors it should be taken care to assure that the contact remain clean and free of contaminates to prevent contact loss and heating. The design of the RADSOK contact provides a self-cleaning action. As the pin is inserted into the socket, the grid elements provide a wiping action that remove minor contaminants from the pin. The spaces between the grid elements provide space for contaminants.

## Radsok® Electrical Characteristics

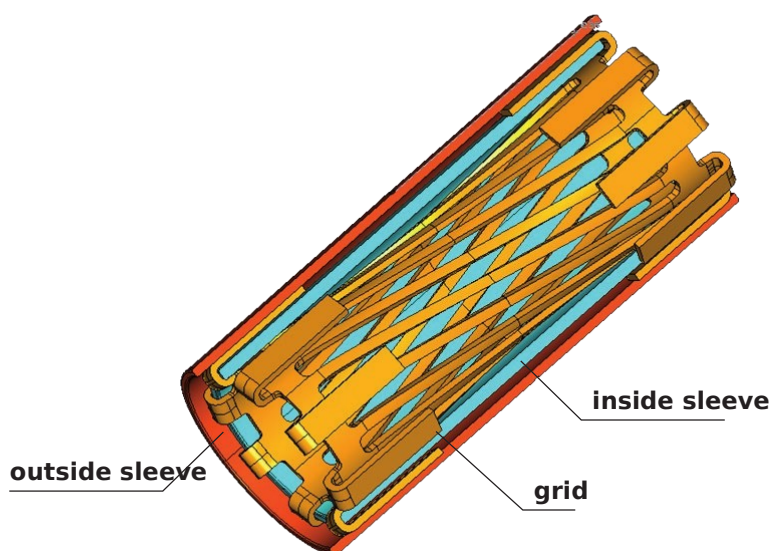
All electrical measurements have been performed with RADSOK-terminals in standard configuration

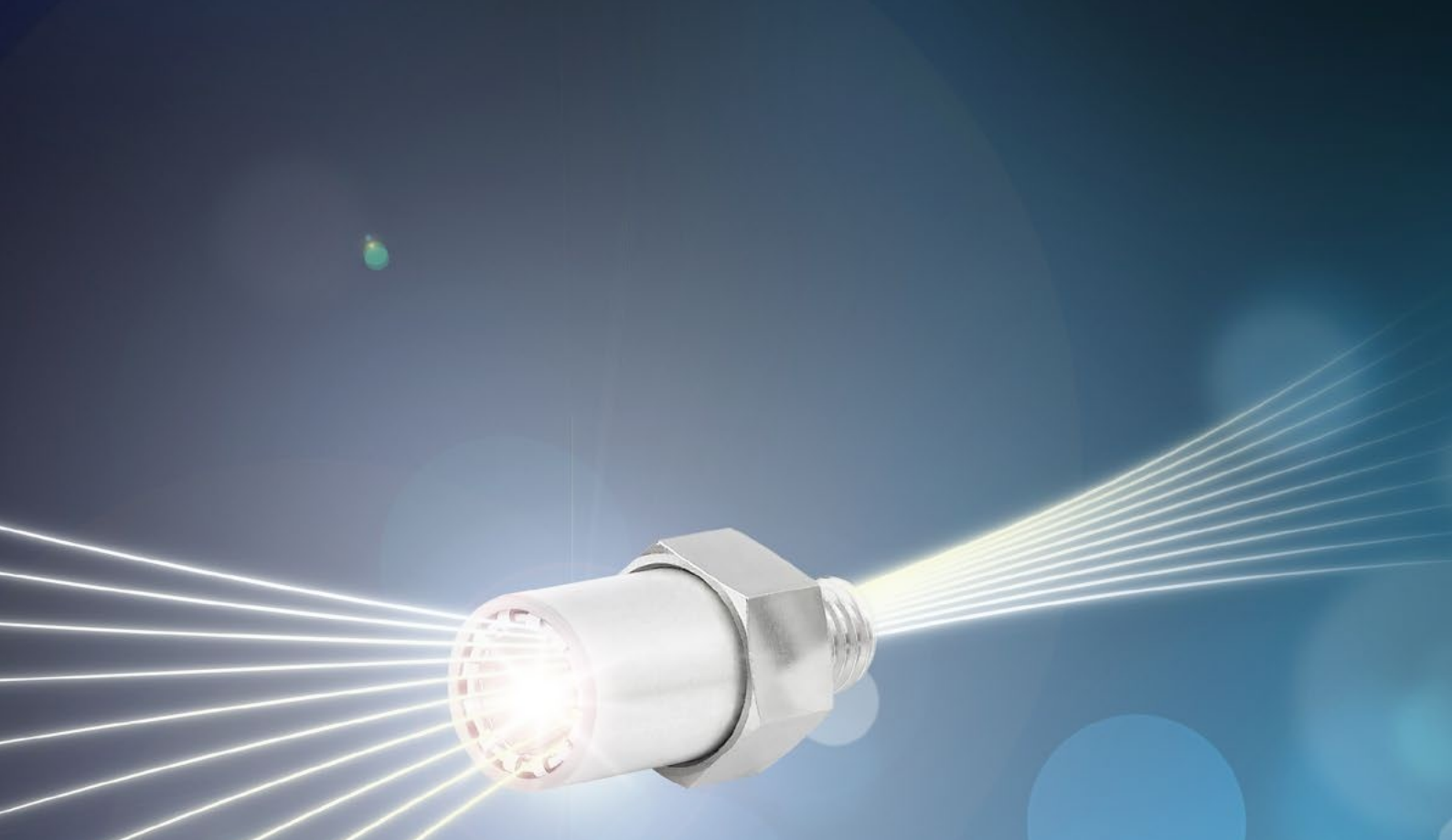
Attribute \ RADSOK		3,6	6,0	8,0
Transition resistance		< 0,2 mΩ	< 0,1 mΩ	< 0,1 mΩ
Typical Transition resistance (for information only)		(0,15 mΩ)	(0,09 mΩ)	(0,06 mΩ)
<b>Continuous current carrying capacity</b>				
Parameter \ cross section		6, 10, <b>16</b> mm <sup>2</sup>	10, 16, <b>25</b> mm <sup>2</sup>	35, <b>50</b> mm <sup>2</sup>
Ambient temperature	20 °C	125 A	190 A	300 A
	85 °C	88 A	135 A	210 A
	125 °C	60 A	85 A	130 A
<b>Max transmission duration for high power</b>				
Ambient temperature \ power				
40 °C	200 A	40 s	500 s	cont.
	500 A	2 s	25 s	100 s
	1000 A	0,2 s	3 s	15 s
100°C	200 A	10 s	120 s	600 s
	500 A	0,9 s	10 s	40 s
	1000 A	0,1 s	1 s	8 s

## Radsok Mechanical Characteristics

Mating Force and Mating Cycles

Attribute \ RADSOK		3,6	6,0	8,0
Mating Force		9 N (±3)	21 N (±10)	30 N (±12)
Mating Cycles		1000	1000	1000





# busbar|mate

- **screw version**
- **available in 6 mm, 8 mm and 10 mm**
- **great solution for busbar**
- **maximum operating temperature (incl. selfheating) +150 °C**



Description	Part number	Drawing	Picture
Radsok 6 mm with thread M6	N 02 060 6601 001		
Radsok 8 mm with thread M8	N 02 080 6601 001		
Radsok 10 mm with thread M10	N 02 100 6601 001		

Size	6,0	8,0	10,0
<b>Mating partner</b>			
diameter	Ø 5,95 <sup>+0,05</sup> <sub>0</sub>	Ø 8,0 <sup>+0</sup> <sub>-0,05</sub>	Ø 10,0 <sup>+0</sup> <sub>-0,05</sub>
surface roughness	Ra=0,8		
material	brass		
surface contact area	silver-plated min 6 µm		
minimum length	22 mm <sup>min</sup>	26 mm <sup>min</sup>	28 mm <sup>min</sup>
<b>busbar</b>			
through hole	Ø 6,2 ±0,1 mm	Ø 8,2 ±0,1 mm	Ø 10,2 ±0,1 mm
cross-section at contact area	12 mm	16 mm	20 mm
thickness	2,8 mm min	3,2 mm min	3,6 mm min
material	copper		

Size	6,0	8,0	10,0
torque	8 Nm	12 Nm	15 Nm
Thread	M6	M8	M10
Current carrying capacity at 85 °C ambient temperature	134 A	197 A	230 A
Current carrying capacity at 85 °C ambient temperature	112 A	164 A	190 A

The screw-in Radsok contact has to be tightened in the busbar with a nut according to DIN EN24 032/ISO 4032 and a washer. At assembly the nut has to be held on the screw-in Radsok contact hat to be tightened with a torque according to table above.

\*1 The current carrying capacity is depending on the ambient temperature, a potentially used cable (insulation, conductor length, laying), used mating partner, busbar (contact area, material, cross-section) external heat sources, housing, supply quality of crimping.

\*2 For mechanical stability the screw-in Radsok contact has to be tightened by a nut.

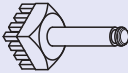





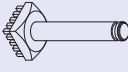




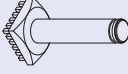



**Radsok**

## board|mate

- **High Power for PCB**
- **available in 3.6 mm, 6 mm and 8 mm Radsok**
- **up to 75% quicker than screw connection**
- **compact design - requires less space**
- **Board-to-board and board-to-cable solutions**



Amphenol board|mate connectors combine high power contact technology from Amphenol and PCB blocks from Wuerth Elektronik. During soldering they are pressed in into the circuit board so the board is not exposed to high temperature during soldering.

description	Part number	drawing	housing
<b>Solutions for 3.6 mm Radsok</b>			
board mate pressfit pin - Radsok 3,6 mm	N 01 036 6501 001		-
board mate pressfit socket - Radsok 3,6mm	N 02 036 6501 001		-
crimp socket 3,6 mm 4-6 mm <sup>2</sup> cable diameter	N 02 036 6126 001		C360 G01 041 E1Z
crimp socket 3,6 mm with <b>click fit</b> 4 mm <sup>2</sup> -6 mm <sup>2</sup> cable diameter	N 02 036 6136 002		C360 G01 141 E1Z
crimp socket 3,6 mm with Isola 6 mm-10 mm <sup>2</sup> cable diameter	N 02 036 6109 002		C360 G01 241 E1Z
crimp socket 3,6 mm with <b>click fit</b> 6 mm <sup>2</sup> -10 mm <sup>2</sup> cable diameter	N 02 036 6137 002		C360 G01 341 E1Z
<b>Solutions for 6 mm Radsok</b>			
board mate pressfit pin - Radsok 6,0 mm	N 01 060 6501 001		-
crimp socket contact 6 mm 10 mm <sup>2</sup> -16 mm <sup>2</sup> cable diameter	N 02 060 6121 002		C360 G01 041 E2Z
Crimpcontact for male contact Ø6 mm <b>click fit</b> 10-16 mm <sup>2</sup> cable diameter	N 02 060 6164 002		C360 G01 141 E2Z
crimp socket contact 6 mm 25 mm <sup>2</sup> cable diameter	N 02 060 6120 002		C360 G01 241 E2Z
crimp socket contact 6 mm with Isola-Crimp 25 mm <sup>2</sup> cable diameter	N 02 060 6165 002		C360 G01 341 E2Z
<b>Solutions for 8 mm Radsok</b>			
board mate pressfit pin - Radsok 8,0 mm	N 01 080 6501 001		-
board mate pressfit socket - Radsok 8,0 mm	N 02 080 6501 001		-
crimp socket contact 8 mm 35 mm <sup>2</sup> -50 mm <sup>2</sup> cable diameter	N 02 080 6121 002		C360 G01 041 E3Z (35 mm) C360 G01 241 E3Z (35 mm) <b>or</b> C380 10E004 241 2L (50 mm) C380 G09 241 E3 (50 mm)
crimp socket <b>click fit</b> 8 mm 35-50 mm <sup>2</sup> cable diameter	N 02 080 6182 002 L		C360 G01 141 E3Z (35 mm) C360 G01 341 E3Z (50 mm)

## Current Carrying Capacity

The current carrying capacity of a connection using a boardmate connector needs to be seen in the context of the overall system.

## General Information

Especially when talking about high current carrying capacity a lot of factors have to be considered, e.g. layout of the PCB. Press Fit zone has very low electrical contact resistance of 100 – 200 µOhm. The limiting factor therefor usually lies in the connection of a feed line. The plugging elements have an electrical contact resistance of 0.2 mOhm at Ø 3.6 mm, 0.05 mOhm at Ø 6.0 mm, 0.075 mOhm Ø 10.3 mm and 0.028 mOhm at Ø 14.0 mm.


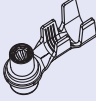
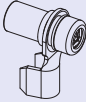


**Radsok**

# ground|mate

- **For grounding systems or Potential equalisation (PE)**
- **For power applications**
- **fast and easy mating**
- **secure and reliable contact system**
- **vibration-proof solution**






description	Part number	drawing	housing
<b>Solutions for 3.6 mm Radsok</b>			
crimp socket 3,6 mm with <b>click fit</b> 4 mm <sup>2</sup> -6 mm <sup>2</sup> cable diameter	N 02 036 6136 002		C360 G01 141 E1Z
crimp socket 3,6 mm with <b>click fit</b> 6 mm <sup>2</sup> -10 mm <sup>2</sup> cable diameter	N 02 036 6137 002		C360 G01 341 E1Z
<b>Solutions for 6 mm Radsok</b>			
crimp socket contact 6 mm 10-16 mm <sup>2</sup> cable diameter	N 02 060 6164 002		C360 G01 141 E2Z
Crimpcontact for male contact Ø6 mm <b>click fit</b> 25 mm <sup>2</sup> cable diameter	N 02 060 6165 002		C360 G01 341 E2Z
<b>Solutions for 8 mm Radsok</b>			
crimp socket <b>click fit</b> 8 mm 35-50 mm <sup>2</sup> cable diameter	N 02 080 6182 002 L		C360 G01 141 E3Z (35 mm) C360 G01 341 E3Z (50 mm)

- no tooling
- quick and easy assembly by plugging
- standard bolt or thread (for grounding)
- hidden assembly possible
- easy maintenance
- axial assembly (e.g. in line) possible



SAVE 50-80% ASSEMBLY TIME  
COMPARED TO BOLTED RING  
TERMINAL SOLUTIONS

## YOUR BENEFITS

- optional touch proof housing available
- secure and reliable contact system
- fast and easy mating saves time and assembly
- optical and haptic feedback
- no torque control necessary
- Locking on pins with nut or on threads
- compatible to M6 and M8 threads



**Amphenol**  
Amphenol-Tuchel Electronics GmbH

**Resumed Test Report**  
No. 426000-1431-0016

**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 mm<sup>2</sup>  
Radsok® 8 mm with crimped cable 35 mm<sup>2</sup>

**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<sub>pk</sub>, I<sub>cw</sub>, DIN VDE0660-500)**

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

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<sub>pk</sub> 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

**Amphenol**  
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# contacts & housings

- **Touch proof housings**
- **available in 3.6 mm, 6 mm, 8 mm**
- **vibration proof**

## Radsok® contacts and housings

There are three categories of housings for Radsok contacts. Each housing fits to a specific contact so please check for additional information when choosing the contact.

### HOUSINGS WITH INTEGRATED LOCKING

- for 3.6 mm Radsok, 6 mm radsok and 8 mm Radsok

Part number	cable diameter
<b>for 3.6 mm Radsok</b>	
C360 G01 041 E1Z	4-6 mm
C360 G01 241 E1Z	6-10 mm
<b>for 6 mm Radsok</b>	
C360 G01 041 E2Z	10-16 mm
C360 G01 241 E2Z	25 mm
<b>for 8 mm Radsok</b>	
C360 G01 041 E3Z	35 mm
C360 G01 241 E3Z	50 mm

"Z" stands for 400 pcs per packing unit. Please consider when ordering.

### HOUSINGS FOR CLICK/FIT

- for 3.6 mm Radsok, 6 mm radsok and 8 mm Radsok

Part number	cable diameter
<b>for 3.6 mm Radsok</b>	
C360 G01 141 E1Z	4-6 mm
C360 G01 341 E1Z	6-10 mm
<b>for 6 mm Radsok</b>	
C360 G01 141 E2Z	10-16 mm
C360 G01 341 E2Z	25 mm
<b>for 8 mm Radsok</b>	
C360 G01 141 E3Z	35 mm
C360 G01 341 E3Z	50 mm

"Z" stands for 400 pcs per packing unit. Please consider when ordering.

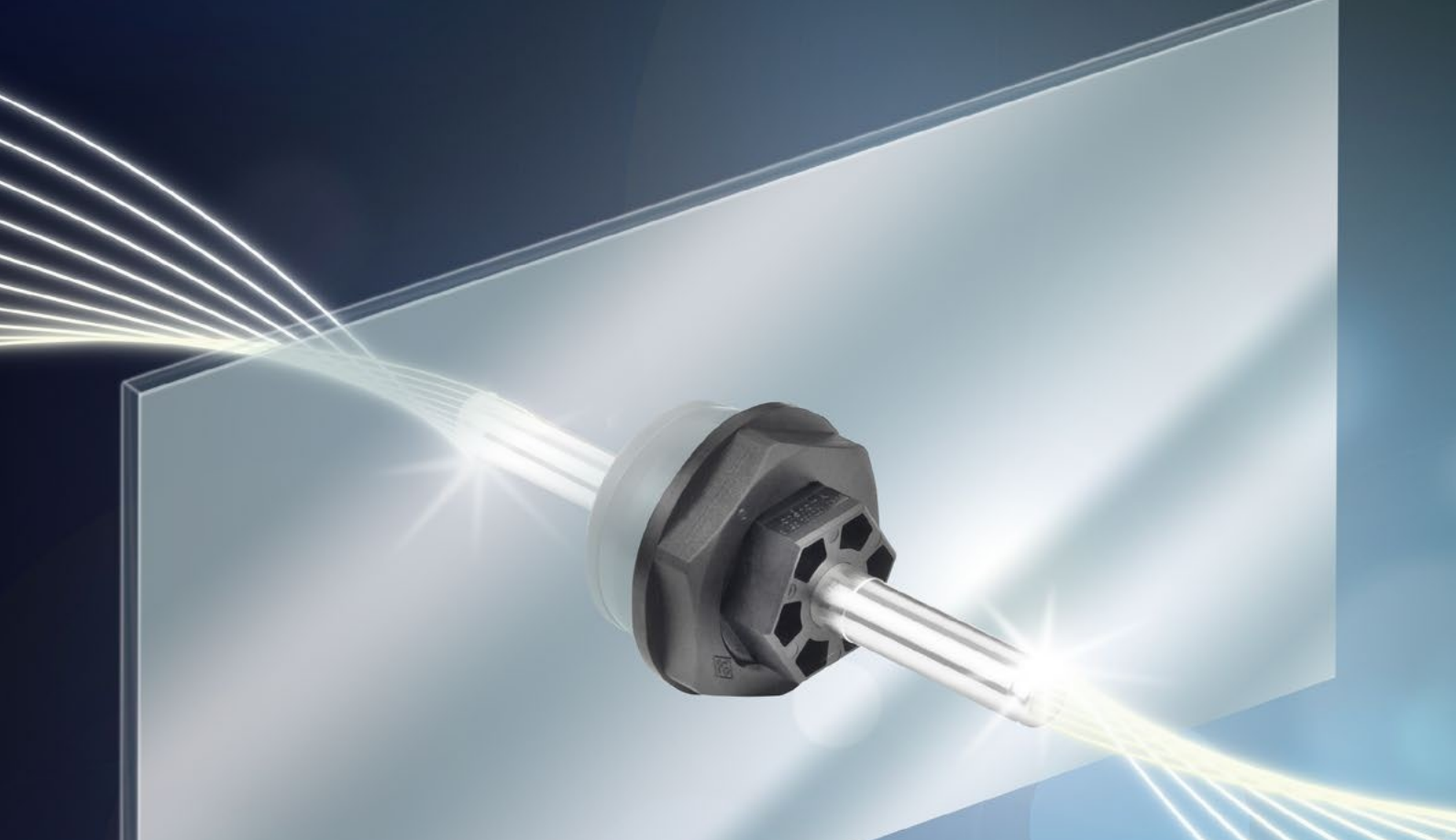
### HOUSINGS WITH ACTIVE PIN LOCK CONNECTOR

- for 8 mm Radsok
- Mating- / unmating force: 45N
- Pullout force:  $\geq 500N$  (once only)
- Mating cycles: min. 1000
- Voltage level:  $\leq 60V$  DC/AC (higher level on request)
- Temperature range: -40 °C to 125 °C, short time 150 °C
- Accepted wire range: 35 and 50 mm
- Material: housing, cover and locking slider: PBT GF30

description	Part number
Housing black without coding	C380 10E004 241 2L
Cover for cable 35 mm	C380 10E004 241 E3L / C380 G09 241 E3L
Cover for cable 50 mm	C380 10E004 341 E3L / C380 G09 341 E3L
Crimp contact Radsok	N02 080 6121 002L

"L" stands for 50 pcs per packing unit. Please consider when ordering.



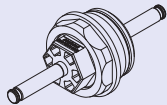
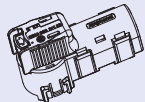


# wallbushing connector

- **Power distribution connector**
- **available for 6 mm and 8 mm Radsok**
- **easy and fast assembling from one side!**
- **fast mating and unmating without any tool**



## Radsok<sup>®</sup> wallbushing connector

description	Part number	drawing
<b>6 mm Radsok - wallbushing connector</b>		
6 mm Wallbushing Connector	C360 10D001 001 2	
6 mm Wallbushing Connector universal port	C360 10D001 002 2	
<b>6 mm Radsok - sockets and housings</b>		
Housing black for 10 + 16 mm cable	C360 G01 141 E2	
Housing black for 25 cable	C360 G01 341 E2	
Crimp contact Radsok for 10 + 16 mm cable	N02 060 6164 002	
Crimp contact Radsok for 25 cable	N02 060 6165 002	
<b>8 mm Radsok - wallbushing connector</b>		
Wall bushing Connector	C360 10D001 001 3	
<b>8 mm Radsok - sockets and housings</b>		
Housing black without coding	C380 10E004 241 2L	
Cover for 35 cable	C380 G09 241 E3L	
Cover for 50 cable	C380 G09 341 E3L	
Crimp contact Radsok for 35 + 50 mm cable	N02 080 6121 002L	



# tools

- Tools needed to crimp Radsok contacts

## FOR CRIMPING RADSOK CONTACTS YOU NEED:

- Electro Hydraulic Crimping Unit**

Amphenol p/n TE 0500 or  
KLAUKE p/n EK12042L  
NEKO p/n: APHW400C



- Crimping dies**

Regarding on contact  
(see below)



Crimping dies			Contacts	
Part number	comment		Part number	comment
for 3.6 mm Radsok				
TE 0500-101	Radsok 3,6 mm for cable 4 - 6 mm²		N 02 036 6126 001	crimp socket 3,6 mm 4-6 mm² cable diameter
			N 02 036 6136 002	crimp socket 3,6 mm with <b>click fit</b> 4 mm²-6 mm² cable diameter
TE 0500-082	Radsok 3,6 mm with isola-crimp for AWG 8		N 02 036 6109 002	crimp socket 3,6 mm with Isola 6 mm²-10 mm² cable diameter
			N 02 036 6137 002	crimp socket 3,6 mm with Isola 6 mm²-10 mm² cable diameter <b>click fit</b>
for 6 mm Radsok				
TE 0500-081	Radsok 6 mm for cable 10 mm²		N 02 060 6121 002	crimp socket contact 6 mm 10 mm²-16 mm² cable diameter
TE 0500-061	Radsok 6 mm for cable 16 mm²			
TE 0500-041	Radsok 6 mm for cable 25 mm²		N 02 060 6120 002	crimp socket contact 6 mm 25 mm² cable diameter
TE 0500-081	Radsok 6 mm for cable 10 mm²		N02 060 6164 002	Crimpcontact for male contact Ø6 mm 10-16 mm² cable diameter <b>click fit</b>
TE 0500-061	Radsok 6 mm for cable 16 mm²			
TE 0500-041	Radsok 6 mm for cable 25 mm²		N02 060 6165 002	Crimpcontact for male contact Ø6 mm 25 mm² cable diameter <b>click fit</b>
for 8 mm Radsok				
TE 0500-011	Radsok 8 mm for cable 35 - 50 mm²		N 02 080 6121 002	crimp socket contact 8 mm 35 mm²-50 mm² cable diameter
			N 02 080 6103 002	crimp socket contact 8 mm 35 mm²-50 mm² cable diameter
TE 0500-011	Radsok 8 mm for cable 35 - 50 mm²		N02 080 6182 002 L	crimp socket <b>click fit</b> 8 mm 35-50 mm² cable diameter



# Industrial Solutions

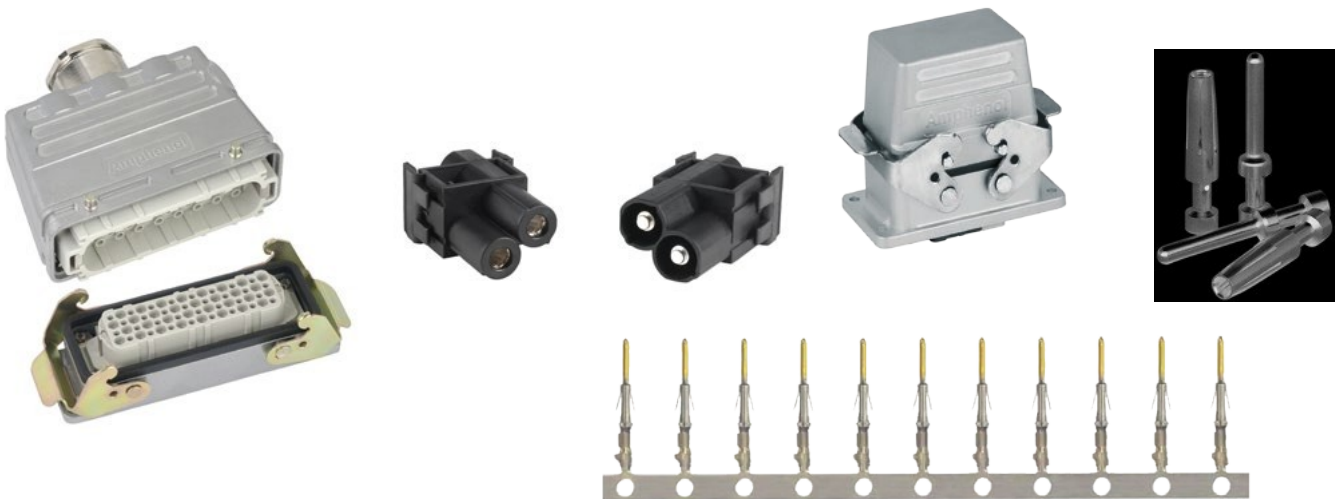
- **Industrial@Amphenol product series using Radsok technology**



As mentioned before Radsok is not only a product but a contact technology. Within INDUSTRIAL@AMPHENOL this technology is used in the following product series:

### HEAVY MATE

Heavy duty rectangular connectors that are using monoblock or modular inserts. By using the modular system 6 mm and 12 mm pitch are used in combination with IP65, IP67 or IP68 housings. For further information please see our homepage or contact your sales contact person.



### ECOMATE RM

Circular metal connectors that are also using Radsok contacts. The subseries ecomate RM high amperage connectors enable all major Radsok sizes: 3,6 mm, 8 mm and 10 mm Radsok. Housings can go up to IP67. For further information please see our homepage or contact your sales contact person.



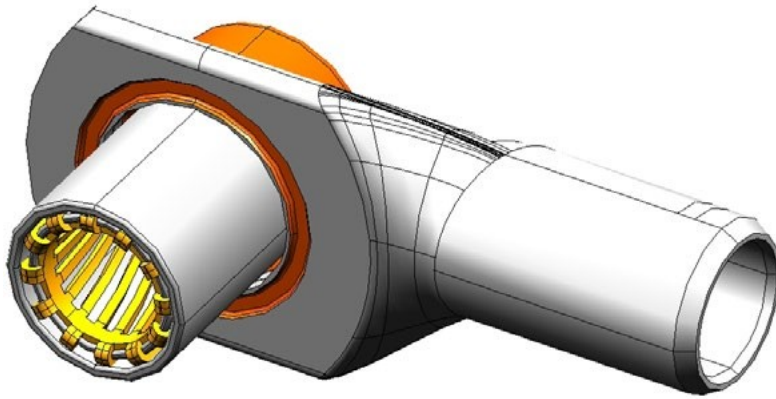


# press|mate

- brand new patented technology
- Radsok can be integrated in Standard cable lugs
- available from 3 up to 16 mm Radsok  
(enables solutions with more than 400A at 45°C)

**AVAILABLE  
Q3 2015**

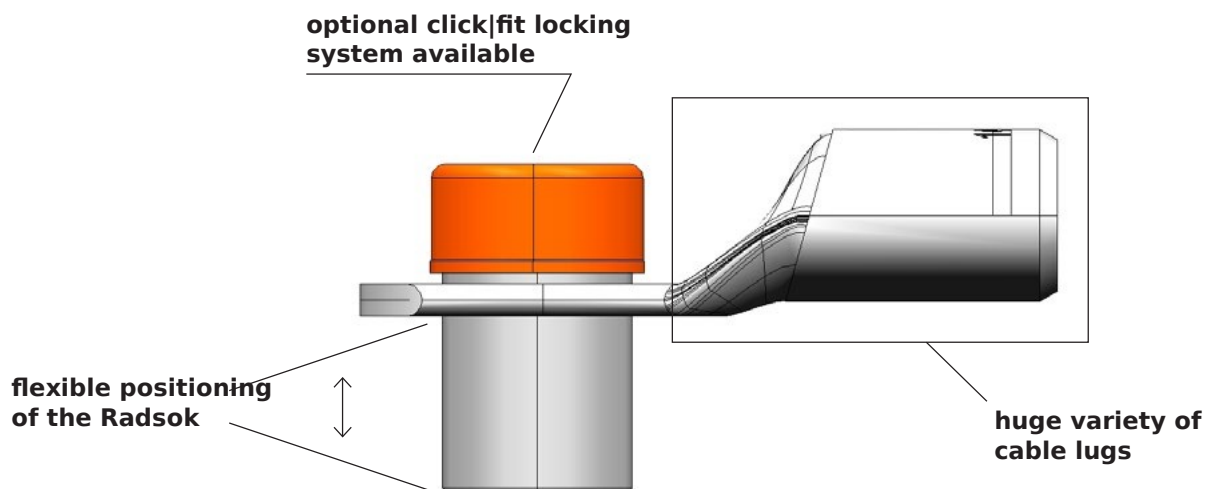
By using our brand new patented technology we can integrate Radsok contacts in standard cable lugs. As a result of this a cable lugs can be used – by using 16 mm Radsok we can go over 400 A.



- reliable and secure contact system
- vibration proof
- can be used for power and grounding applications
- no special tooling required
- 360° rotatable

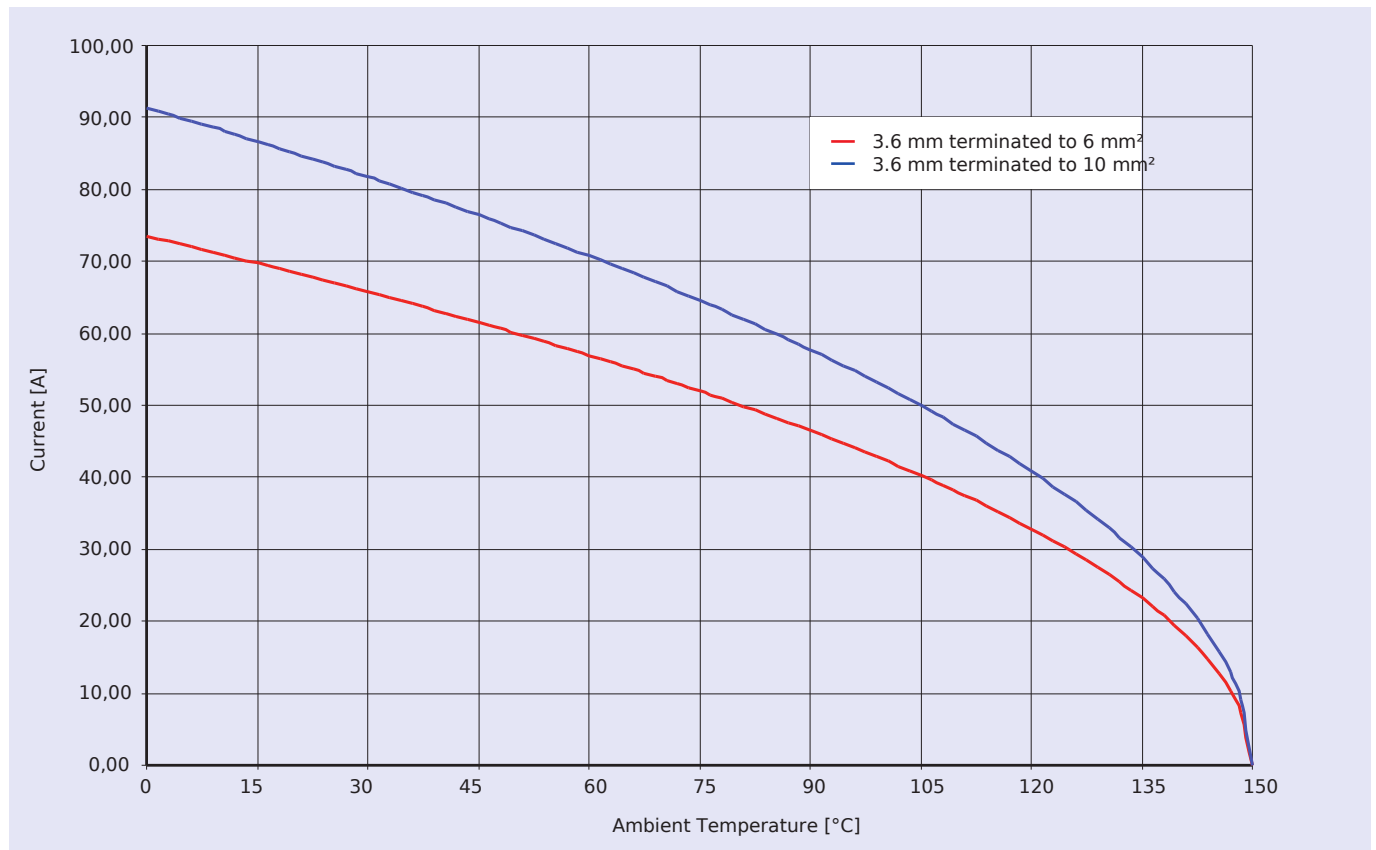
### CUSTOMIZE

Customizing possible at a certain volume.

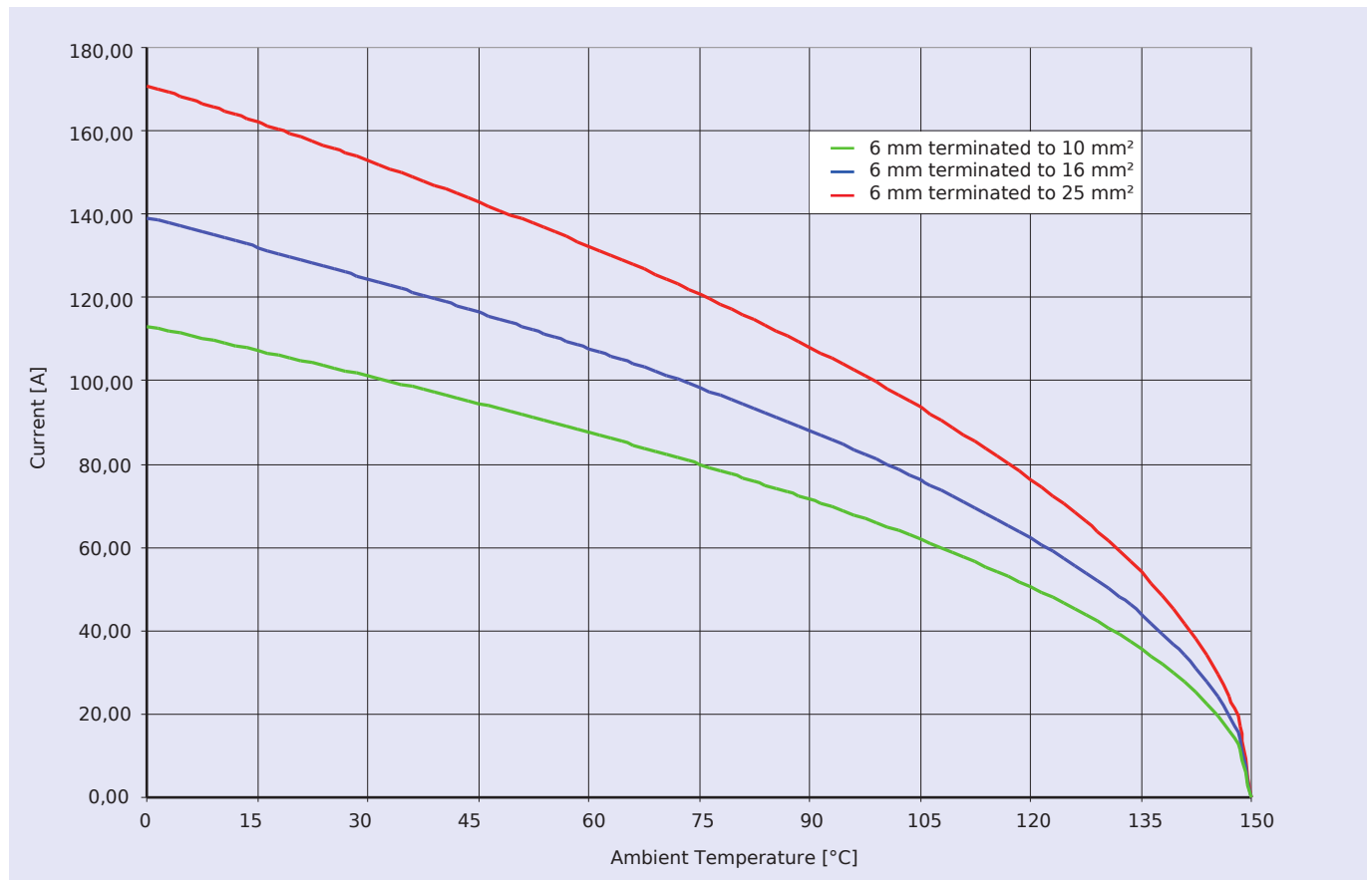


**Contact your sales representative for additional information!**

## Derating 3,6 mm Radsok



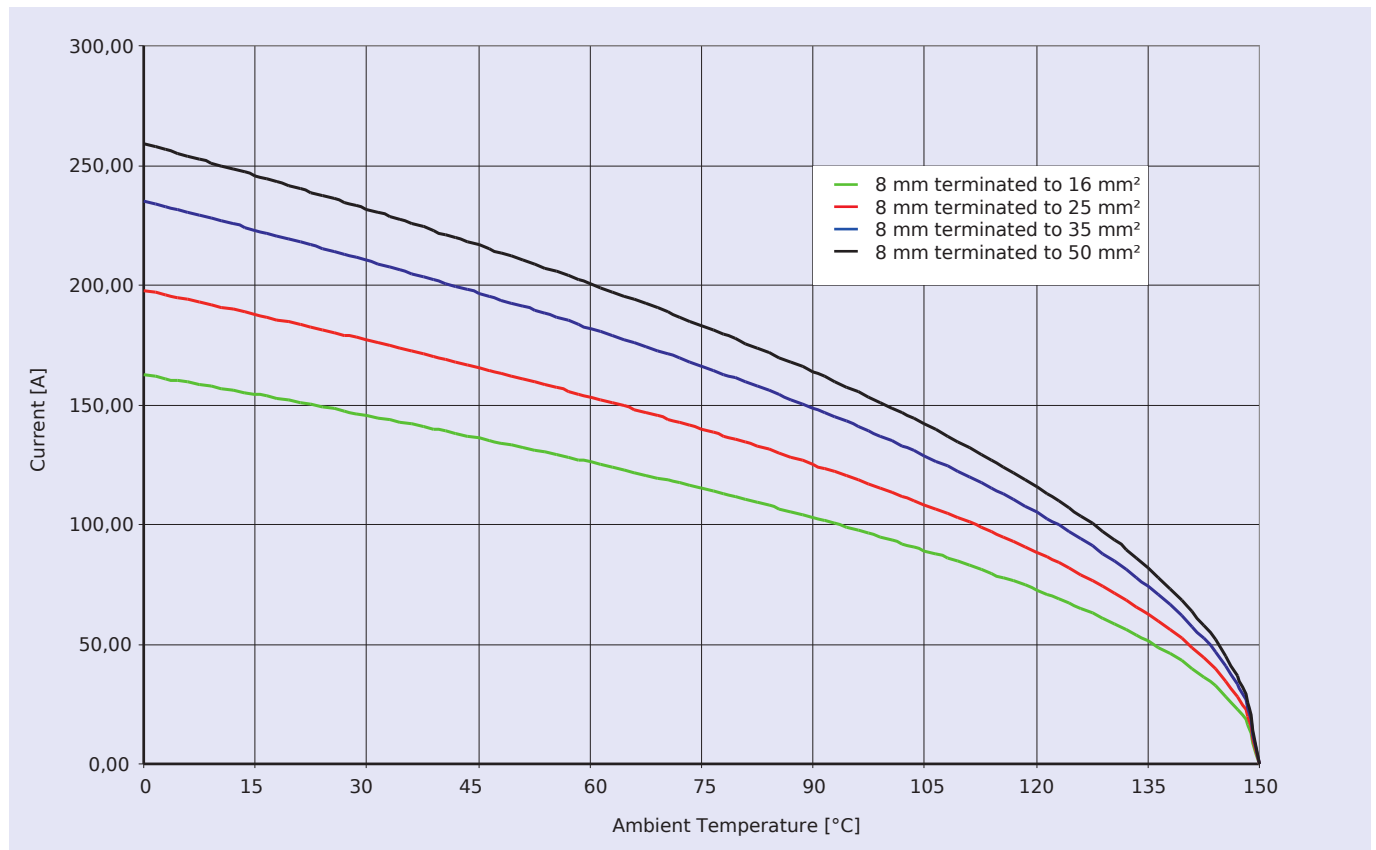
## Derating 6 mm Radsok



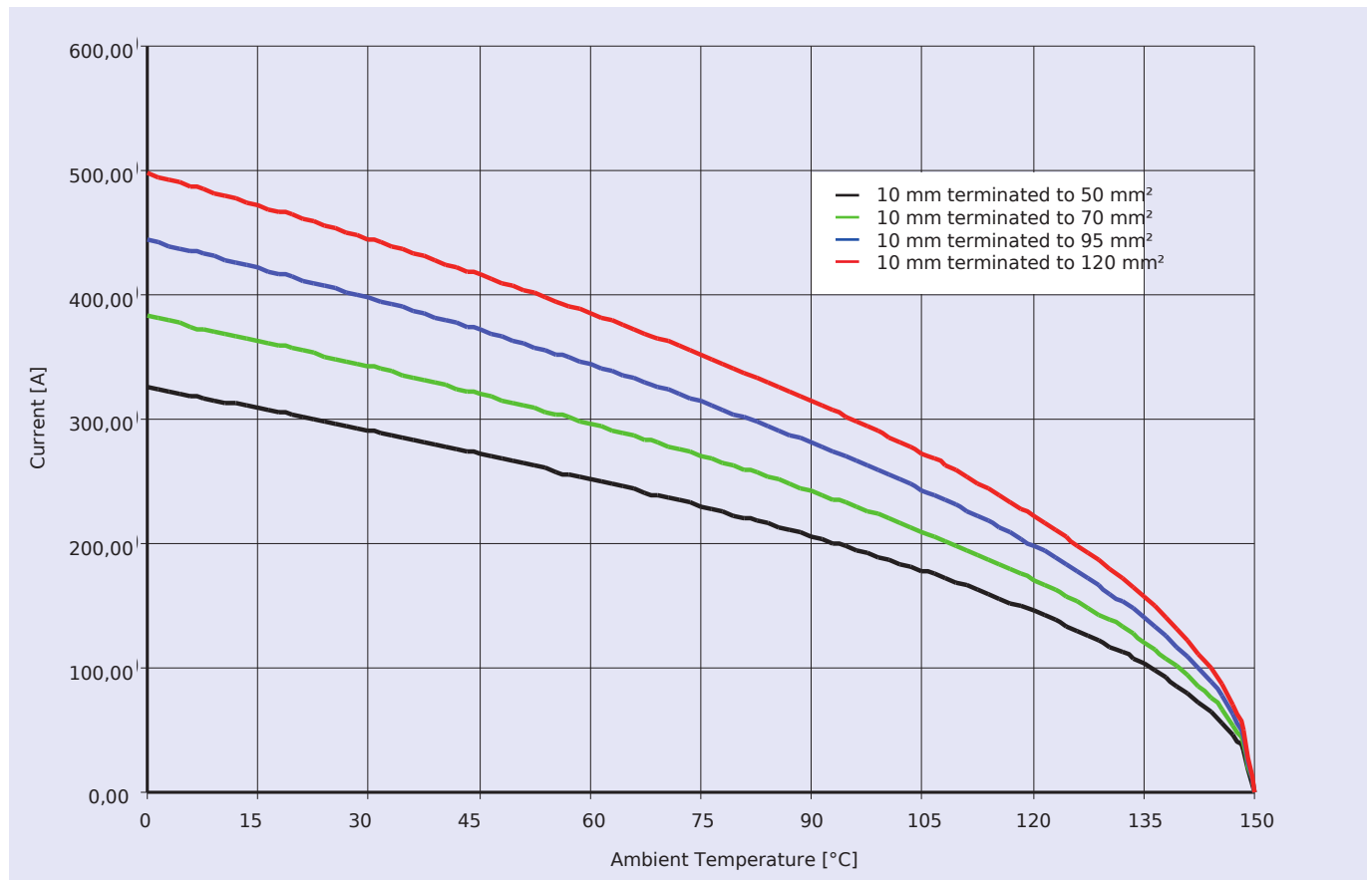
Remark: The given electrical values correspond to a single contact. With the addition of a housing, an increased number of modifications the values must be adjusted downwards accordingly



### Derating 8 mm Radsok



### Derating 10 mm Radsok







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