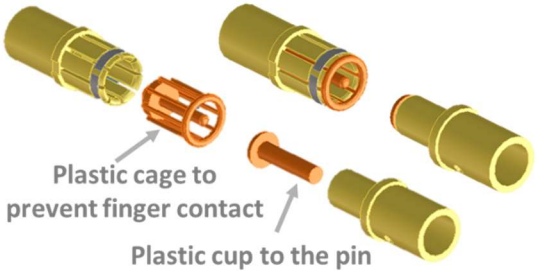
UltraWatts© – Power contacts

The patented UltraWatts© contact family used for power supply & distribution applications has both electrical and mechanical characteristics allowing electrical supply of equipment in harsh environments.

UltraWatts© contacts are designed for mass production in terms of optimizing cost and guaranteeing a high reliability of the contact area. The main applications are: Automobile, Railway, Military, Industrial, Commercial Aerospace, etc.

The electrical capacities of UltraWatts© allow the optimization of the system performances while integrating the IP2X protection «Finger protection» for the user. This gives an exceptional ability to adapt to a multitude of applications and environments. The electrical behavior of the UltraWatts© contact is 20%* more efficient than the other contact technologies on the market. The UltraWatts© contact is designed to maximize cable electrical performance (contact resistance is the same as the cable).

*Average value, the test was done in the same configuration: cable 50 mm² (Axon FlexForce cable), screw contacts, 20°C room temperature.



Example	Resistance at 300A (mΩ)
Axon FlexForce Cable 50 mm² (Cable length: 44 mm)	0,03
UltraWatts Size 1 Contact (connection length: 44 mm)	0,03

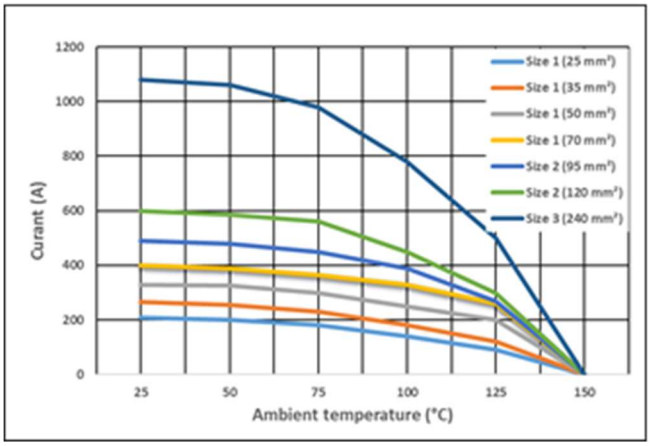
UltraWatts© contacts range from 100A to 1000A according to the configurations of the cable size.

- Three sizes of contacts
- Two materials: copper and aluminum
- Silver plated

Test configuration:

- Single pole connector (Copper contact)
- Tested with Axon FlexForce Kabeln
- 1.5 meter cable length

Contact size	Insertion Force	Copper Contact Resistance	Maximum Current Rate (at room temperature + 50°C)
1	50 N	0,03 mΩ	200 A
2	70 N	0,01 mΩ	500 A
3	130 N	0,01 mΩ	1000 A



De-Rating curve according to EN 60512-5-2

For future applications, the De-rating test must be done with the cable application.

The UltraWatts© can be adapted to your specific needs. Our engineering team is ready to support you to find the right solution.

Examples for customer Applications:

Modular single pole (300A) with aluminum contacts

Modular single pole (600A) for railway and industrial applications