



THE SPECIALIST FOR BATTERY CONNECTORS AND HARNESSES



We work close to our customers and by our flexibility we can offer our customers very fast deliveries.

In addition by our flexibility standard products can be adapted according to customer requirements regarding lengths and cross sections.

Our vision is to deliver next day after receipt of order and to offer the lowest prices on the market.

The company is quality and environment certified according to ISO 9001 and ISO 14001.



CONNECTORS

General

We manufacture connectors according to customer drawings in small and big numbers and we can cope with urgent deliveries in short notice.



Example: Connector with battery cable lugs 50 mm², cc 175 mm.



Example: Connector with tubular cable lugs 70 mm², cc 220 mm.

Data

Connectors for vehicles and marine applications with flexible conductors, cross sections 16 – 95 mm², in customer tailored lengths with single or double insulation of extra flexible TPE alternative PVC or other suitable insulation material. Assembling of battery cable lugs or tubular cable lugs.

For marine applications we deliver connectors with tinned conductors and highly alloyed cable lugs.



Example: Connector with angled battery cable lugs 35 mm², cc 300 mm.



Example: Connector with angled tubular cable lugs 35 mm², cc 400 mm.



HARNESS WITH CONNECTOR AND CORDS

General

We manufacture harnesses according to customer drawings in small and big numbers and we can cope with urgent deliveries in short notice. We assemble and keep in stock most of the connectors on the market.



Example: Harness with connector of type REMA 24 V, 80 A. Cable 16 mm² with tubular cable lugs.

Data

Flexible conductors of cross sections 16 – 95 mm², in customer tailored lengths with single or double insulation of extra flexible TPE or PVC or other suitable insulation material. Connectors of type REMA or according to customer requirements.



Example: Harness with connector of type REMA 80 V, 320 A with air supply system. Cable 70 mm² with moulded connectors and 10 mm hole.

General

Flexible cords of this design give a liquid proof and screen protected connection between the poles of the cells and the external connection.

Data

- 10 mm hole in terminal plate for pole screw
- Available in cross sections: 25-95 mm²
- Supplied in customer tailored lengths



Example: Cord 50 mm² with moulded connector and 10 mm hole.



STATIONARY, TRACTIONARY CELL CONNECTORS

General

Cell connectors are made for stationary and tractionary batteries. The connectors consist of insulated, flexible, sealed, acid proof and low transition resistance terminals. Useful for demanding and undisturbed transmission in tough environment.



Example: Cell connector with moulded terminal 35mm², cc 85 mm. Underside towards the battery.



Example: Cell connector with moulded terminal 95mm², cc 115 mm. Top side.

Data

Made for sealed semi-enclosed connection between the battery poles.

- The connector has got an 8 mm hole in the terminal
- Available in conductor cross sections: 35, 70 and 95 mm²
- Suitable cover caps are available
- Supplied in standard lengths or in customer tailored lengths



Example: Cell connector with moulded terminal 70mm², cc 195 mm. Side view.



Cover caps.



WELDED CELL CONNECTORS

General

Those connectors meet high requirements of conductivity, flexibility, liquid proof and resistant to occurring fluids. The cell connectors are manufactured in customer tailored lengths and dimensions.

Data

The flexible conductor is welded to the tinned copper terminal. This method minimizes the voltage drop caused by the transition resistance between the connection plate and the conductor. The copper conductor consists of bare copper wires without surface treatment according to IEC 60228 Class 6.

The insulation of the flexible conductor and the connector are of the same material, TPE (Thermoplastic Elastomer).

Available conductor cross sections are: 25, 35, 50, 70 and 95 mm².

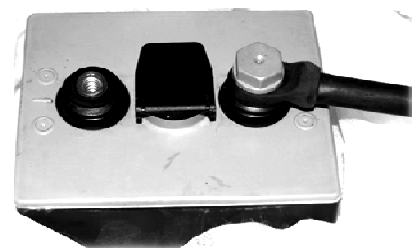
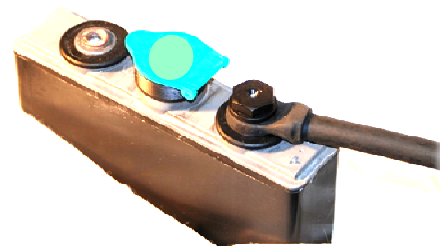
The injection moulded connector will be marked as follows:

- Month and year of manufacture
- Cross section
- Name of manufacturer, SWETECH

Notes

The connector has got one sealing ring towards the connecting bolt and two sealing rings in the bottom towards the pole bracket. The compact design of the cell connector gives more space for tubes and accessories on the top of the battery.

The cell connector from Swetech fits to the most of the cells on the market.

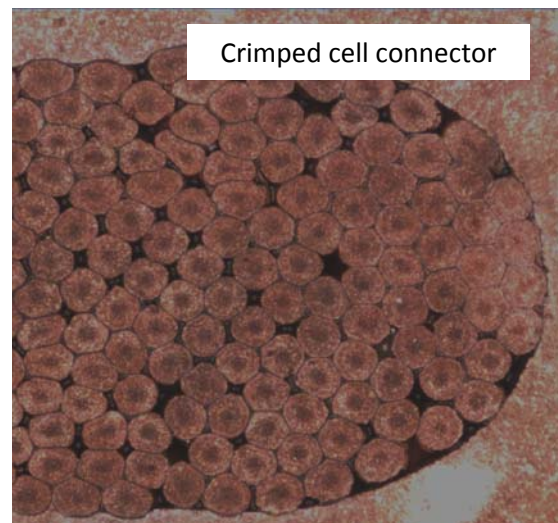
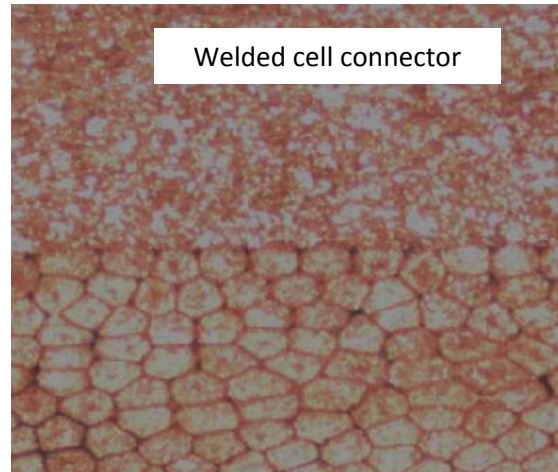




Type test

The welded cell connectors have been type tested for the following properties:

- **Microscopic analysis** of the transition layer between the compacted welded conductor and the tinned copper terminal. The photos to the right show the differences between the new technique for welded cell connectors and the traditional way where a copper tube has been crimped around the flexible conductor. The photos clearly show how the contact surfaces between single copper strands and between the copper strands and the tinned copper terminal have been improved.
- **Tensile strength** of the different cross sections has been checked and the result exceeds our internal requirement of 50 N/mm² by far.
- **Bending test.** The bending test for a cell connector is made by bending the conductor of the cell connector having a 50 mm centre distance in the vertical plane 90° upwards and then 90° downwards followed by a corresponding bending test in the horizontal plane. The test will be approved only if no strands are broken and no strands come loose from the welding spot.





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