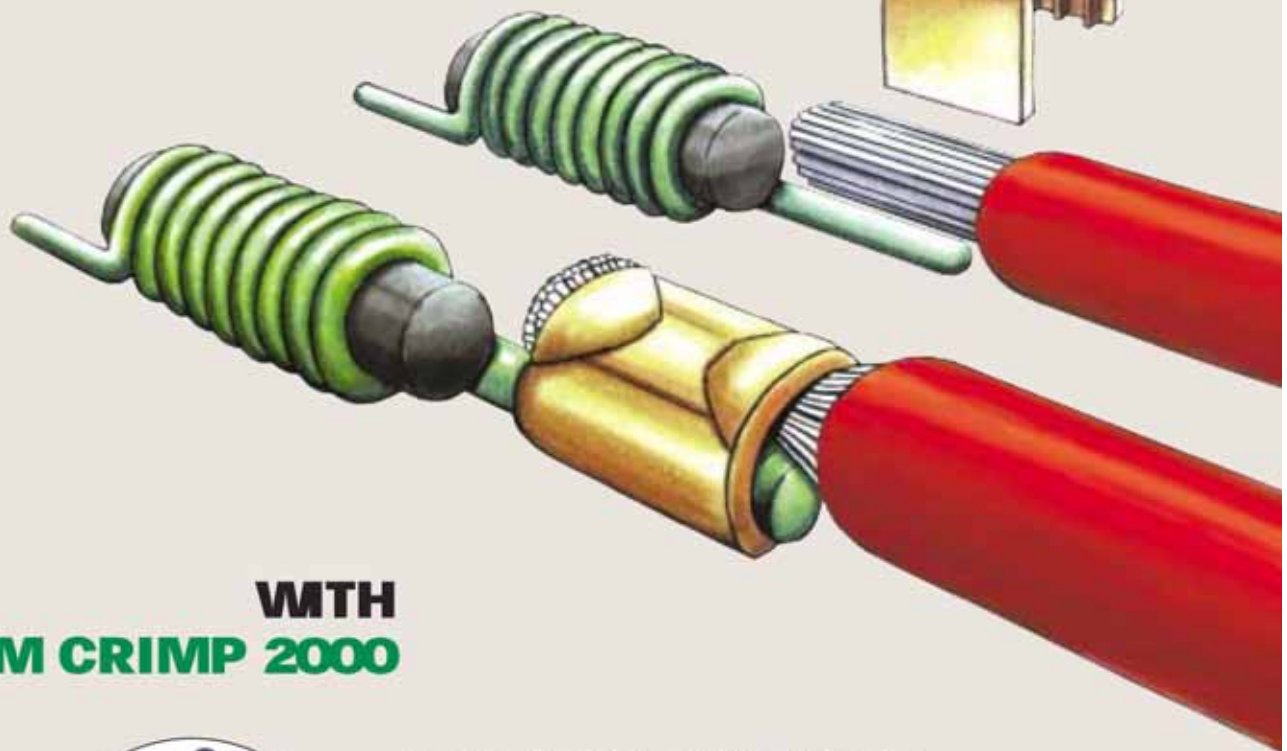




## SM CONTACT SPLICING

**...A NEW  
STANDARD IN QUALITY**



**WITH  
THE SM CRIMP 2000**



**A NEW PRINCIPLE:  
SLOW  
COMPRESSION**



**CONTACT**

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# THE SPLICE

## AND ITS APPLICATIONS

A splice is a crimp connection using a clip cut from a specially shaped continuous metal strip. The connection can only be separated by destruction. By contrast with a classic attachment

component, which is compressed onto an individual strand as a contact element, the splice generally serves to connect an individual strand to other components.

### ADVANTAGES:

**The splice** enables conductor strands to be connected to any component with pins or outgoing cable units.

**The splice:** Quick, efficient operation ensures economical production. Automatic crimping is possible depending on the application.

**Avoiding the use of special contacts:** The splice enables new concepts for components that were originally designed for printed board insertion or with cable connections. It is sufficient for these components to be equipped with straight or angled pins, and these can be soldered in or spliced to pigtail leads, depending on requirements.

**Quality control:** Crimping processes can be monitored through every cycle with an optional Crimp Force Monitoring system.

**Space-saving:** The splice: The physical size of the splice enables it to be used in applications where space is at a premium; e.g., small component manufacturing.

**Versatile:** Using the same starting material and a matching tool, it is possible to make the most varied connections. This considerably simplifies stock management and procurement.



■ Extension of a main cable



■ Coaxial cable: Fixing of screening to screened leads



■ Crimping tip

**Easy to operate:** Ease of operation enables new personnel to achieve impressive production rates with very little training.



■ Fixing of screening to screened leads.



### BETTER THAN SOLDERED CONNECTIONS?

**Definitely better!**

Soldering and welding stiffens the strands and the heating effect can damage the components, which leads to structural

changes in the conductors, making them more susceptible to breakage.

A crimp connection is more resistant to vibrations.



Pins: 0.63 x 0.63  
Minimum length: 3 mm



### CAN SPLICES BE USED IN THE AUTOMOTIVE INDUSTRY?

The automotive industry has standardised on crimp connections. One of the reasons for this is their resistance to vibration, as well as bend stability and, in particular, because they are economical.

Manufacturers in the following industry sectors are also large-scale consumers of splices: domestic appliances, light fittings, medical engineering, data processing and domestic installations.

**Wire end splice:** This application area demonstrates the flexibility of uses of the splice's universal endless strip. You do not need different wire end ferrules depending on the strand cross-sections. The tool cassette can be prepared to cover a wide range of cross-sections e.g. 0.5 – 1.5 mm<sup>2</sup>. Simply present the lead to the machine.



■ The splice also takes on purely fixing functions.



■ Operating instructions

**Printed circuits:** Printed circuits are used increasingly where space is at a premium. This applies particularly in



automotive engineering, in doors applications or roof cladding. In these cases, the splice allows a flat connection with minimum height.



# SMC CRIMP 2000

## MOTORIZED DEREELEL

Strip reel is easy to fit. It is mounted directly on the rotating driver (no risk of layers loosening)

Driver: profiled driver

## FEED SYSTEM

Feed system with automatic adjustment, designed for all three strip widths, feed is monitored by sensors.

Illuminated light for easy operation  
Ergonomic opening environment: minimum distances to grip components

The frontal area of the component crimping also serves as a hand rest

Cover with angled light and finger guards

## CRIMPING HEIGHT

Precise indication of crimping height: one revolution of the wheel is 4.76 mm

Installed oxide insulator screen and antenna (optional)

## DISPLAY:

Large-size counter from counter  
Hourly rate  
Ready adjustment  
Error display

Hand wheel for manual cycle. Both directions of rotation possible (machine cannot be locked)

Strip for filters

Container for components

Arrival on bearings with defined position (no height adjustment necessary)

## EASILY ACCESSIBLE CRIMPING TOOL

- The tool projects towards the operator
- Outstanding accessibility
- View of insertion area with excellent lighting
- Comfortable working position
- Absolutely quiet
- Processing facility: up to 10 mm<sup>2</sup>; 10 standard tool cassettes
- Mains power: 220 V, 50 Hz, single-phase
- Power consumption: 500 W
- Motor power: 300 W
- Cycle time: 300 ms
- 35 mm stroke
- Weight: 56 kg
- Dimensions (including hand wheel): width x height x depth: 291 x 340 x 490 mm
- CE-conformity

## ERGONOMIC AND SAFE

## QUALITY

Optical Crimp force measuring system

## CRIMPING TOOL

Quick-change tool cassette can be changed within a minute.

Regardless of the set crimping height, the tool always remains closed.

## FLEXIBILITY

## FREE SPACE

To deal with bulky components in automatic applications, the component container can be removed.

