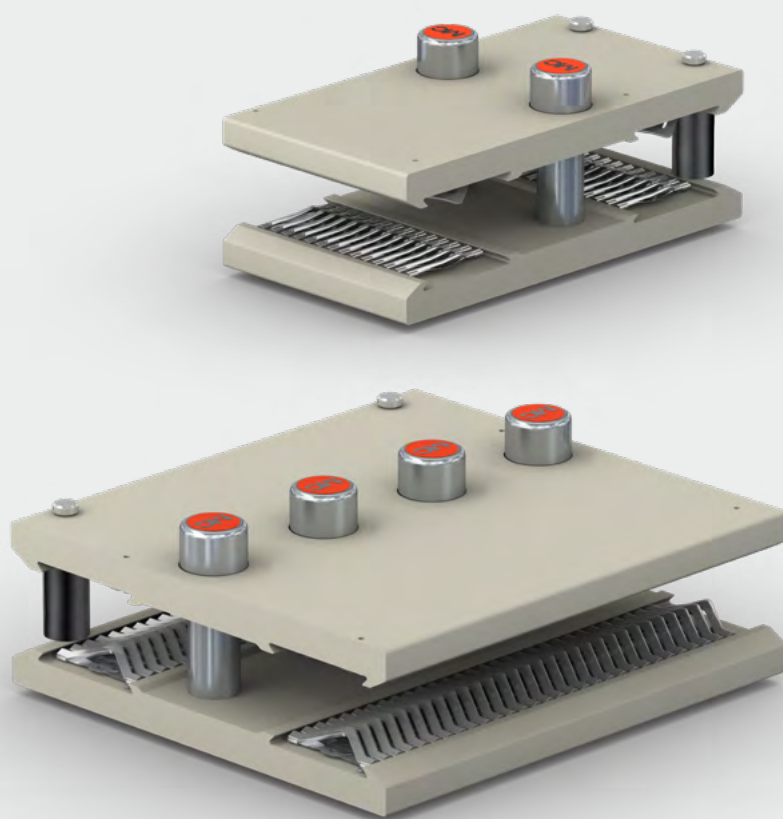


High power fork plug HP-GSRD

Slide-inline | Industrial Connectors

EN



STÄUBLI ELECTRICAL CONNECTORS

Long-term solutions – Expert connections



Stäubli Electrical Connectors is a leading international manufacturer of high-quality electrical contacts and connector systems and solutions for industrial applications. We are part of the Stäubli mechatronics group, the technology leader in connection solutions, robotics and textile machinery.

Stäubli develops, produces, sells and services products for markets with the highest productivity and safety standards. As recognized specialists, our focus is always on solutions and customers. Many new developments got their start here and are now becoming established as worldwide standards.

Our customers depend on our expertise and our active support, even when dealing with unusual challenges. With Stäubli, you're entering into a long-term partnership built on reliability, dedication, and exceptional quality in both products and services.

Pioneering contact technology for increased efficiency

The entire Stäubli Electrical Connectors product range meets market expectations for high performance, the highest number of mating cycles, and long-lasting reliability for safe, durable operation. Our proven **MULTILAM technology** is ideal for all types of connections in industrial applications. Customers in the **power transmission and**

distribution sector rely on our consistent, loss-free transmission performance in all voltage ranges. The **automotive industry** depends on our high-efficiency connections for spot-welding applications in production lines. Harsh conditions in the **transportation sector** require high vibration resistance, maximum reliability, and compact design. These attributes are vitally important for railway and e-mobility applications. The safety

and reliability of our products are essential for **test and measurement technology**.

In the growing field of **alternative energy**, our products have been setting standards since the 1990s. About half of the solar energy generated worldwide is transmitted through safe, long-lasting, high-performance Stäubli connectors.

UNLIMITED POSSIBILITIES FOR CONTACT SOLUTIONS

MULTILAM Technology



MULTILAM are specially formed and resilient contact elements. All Stäubli Electrical Connectors products benefit from the unique and outstanding performance of the **MULTILAM Technology**.

Thanks to their constant spring pressure, MULTILAM louvers ensure continuous contact with the contact surface, resulting in a constantly low contact resistance.

MULTILAM Technology allows to find solutions for connectors within the severest constraints and in certain products for up to 1 million mating cycles.

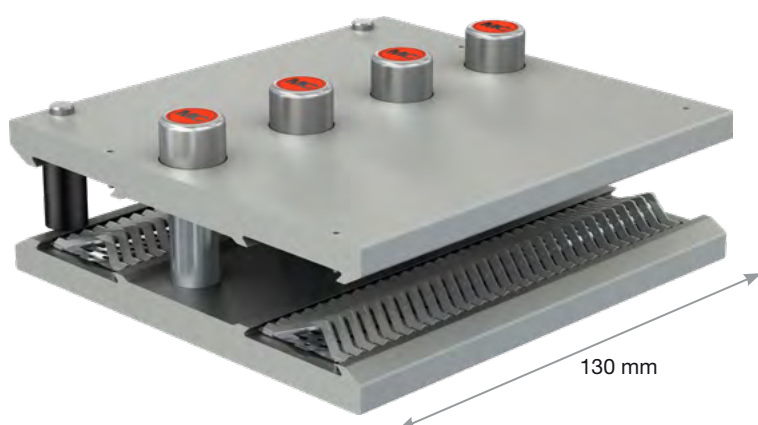
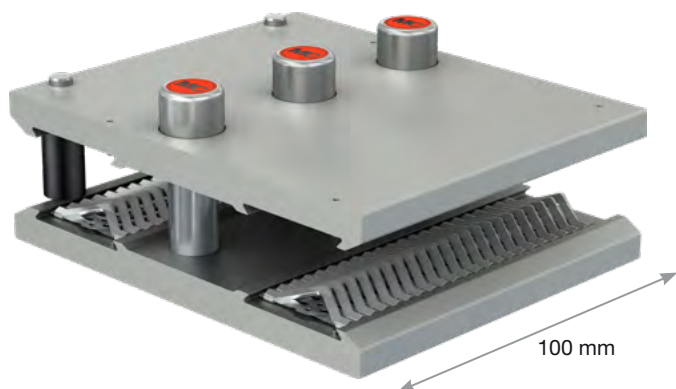
This makes the MULTILAM Technology the best choice for applications with demanding requirements:

- Reliable and longlife operation due to constantly high performance
- Safe operation under highest environmental demands on temperature, vibration and shock
- Suitable for data and signal contacts as well as high-current connectors
- Automated solutions with a high number of mating cycles



INTRODUCTION

Double fork plug HP-GSRD...



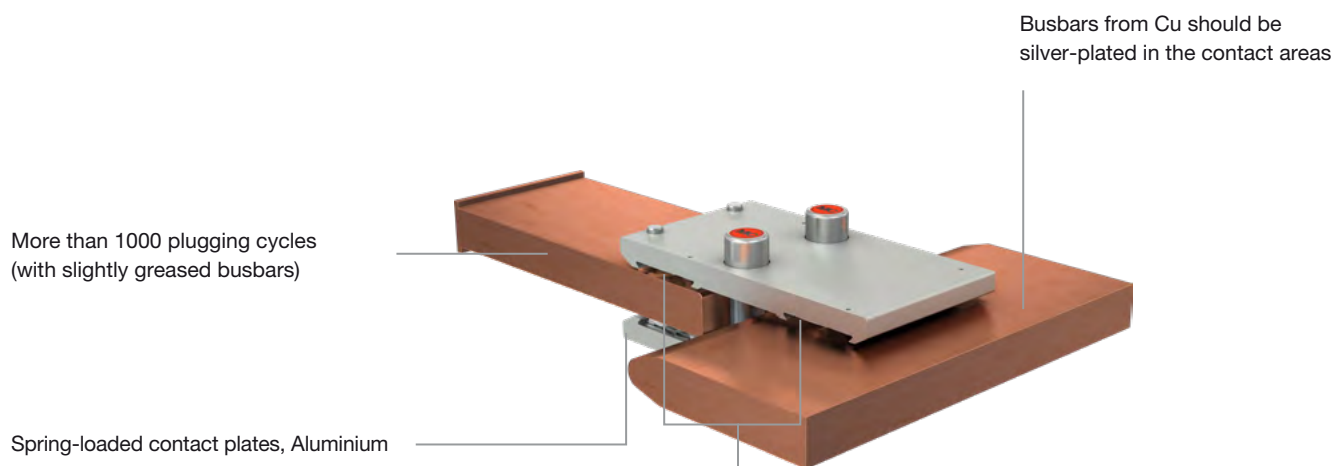
3

Standard versions

(Special double fork plugs can be supplied in non-standard widths and thicknesses on request)

RoHS ready

Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment

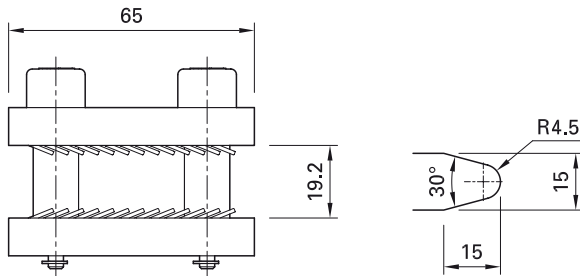


MULTILAM

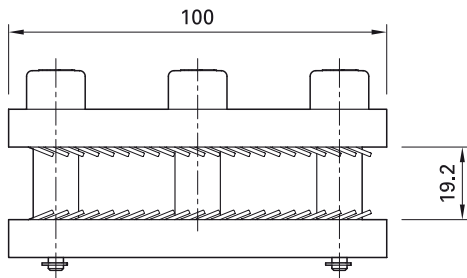


For busbar thicknesses of 15 mm
(Special double fork plugs can be supplied
in non-standard widths and thicknesses on
request)

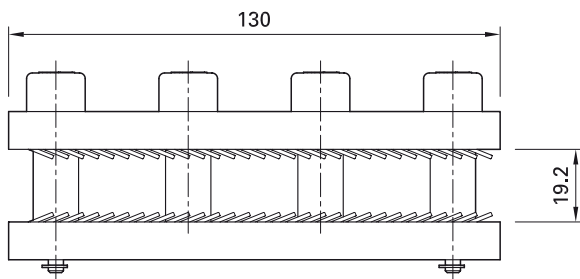
Standard versions



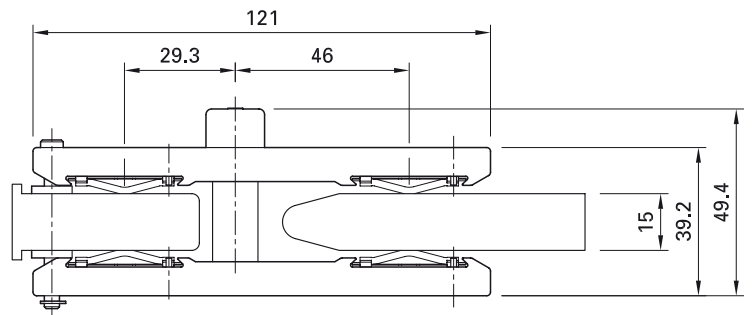
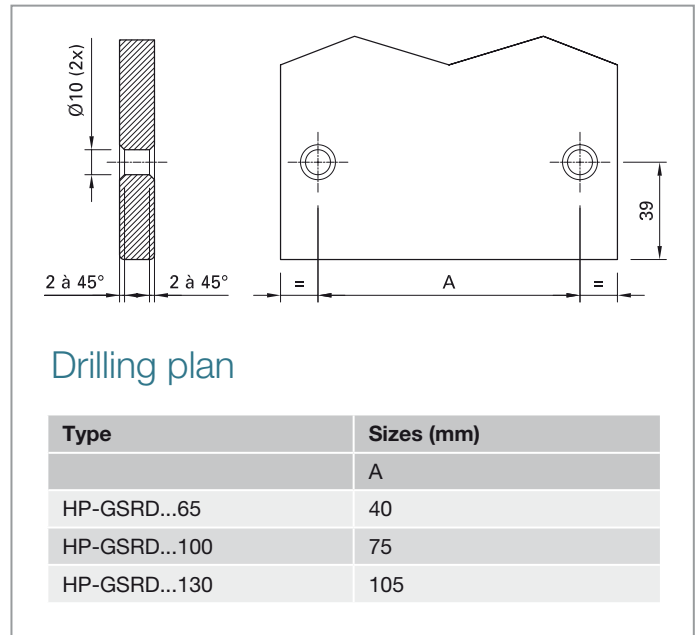
HP-GSRD...65



HP-GSRD...100



HP-GSRD...130



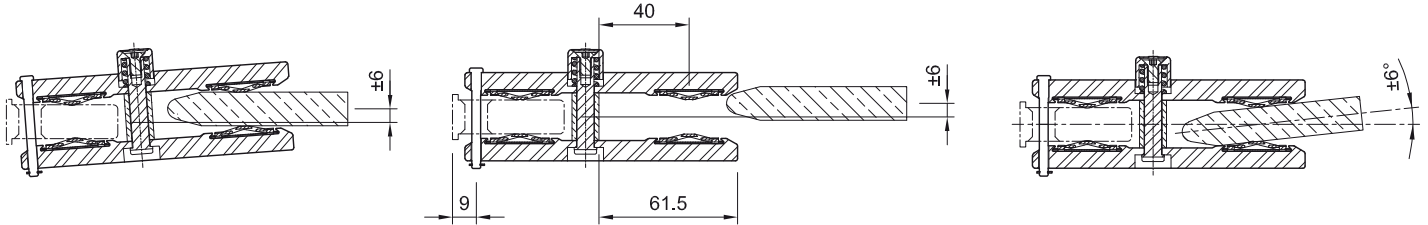
ill.	Order No.	Type	For thickness of busbar	Fork plug length	Insertion force (μ r 0,35)	Contact resistance ¹⁾	Rated current ^{1) 2)}	Rated current ^{1) 3)}	Short-circuit current ¹⁾	Rated peak withstand current
			mm	mm	N	$\mu\Omega$	A	A	kA (1s)	kA
1	19.9050-065	HP-GSRD15-65	15	65	75	50	1000	500	9	25
2	19.9050-100	HP-GSRD15-100	15	100	115	33	1500	750	17	45
3	19.9050-130	HP-GSRD15-130	15	130	150	25	2000	1200	25	65

¹⁾ Data valid with silver plated contact areas on copper busbars

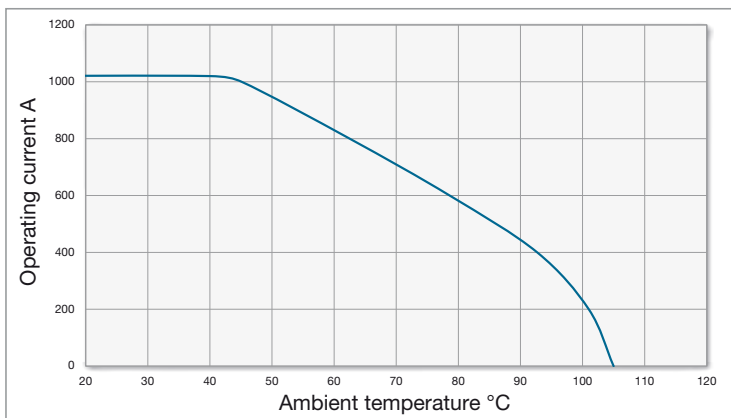
²⁾ Fork plug temperature 105 °C (Ambient temperature 35 °C)

³⁾ Fork plug temperature 65 °C (Ambient temperature 35 °C)

Alignment and angular tolerances

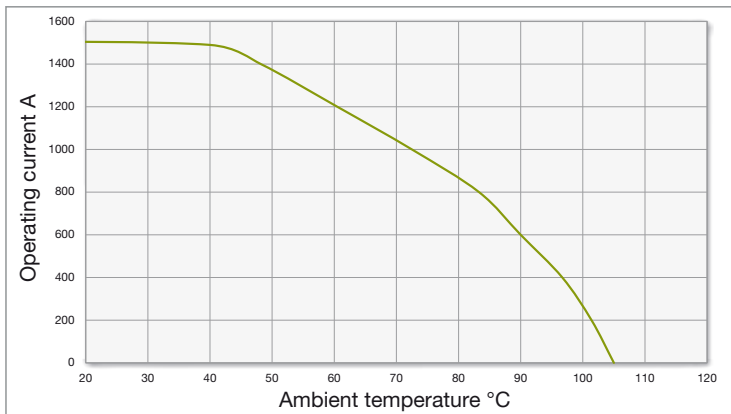


Derating diagrams



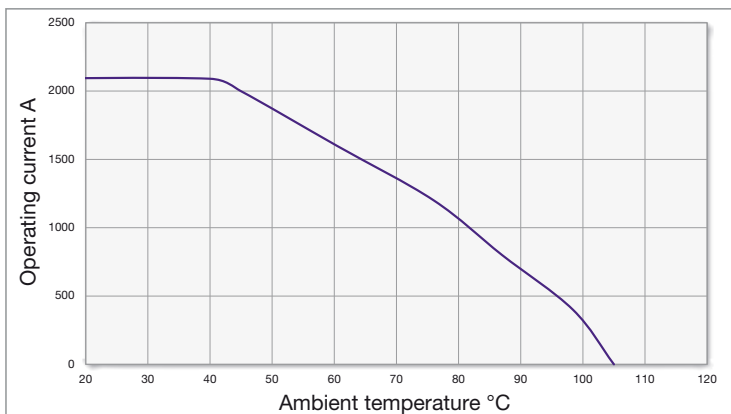
HP-GSRD15-65

Derating according to EN 60512-5-2 (2002) with max temperature 105°C



HP-GSRD15-100

Derating according to EN 60512-5-2 (2002) with max temperature 105°C



HP-GSRD15-130

Derating according to EN 60512-5-2 (2002) with max temperature 105°C



● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com