

# EvoTrak lite – Metallic connector for medium power applications

**Railway | Modular connectors EvoTrak**

EN



# EvoTrak lite

## Modular connector for medium power railway applications

The EvoTrak lite metal-enclosed modular connector is specially developed for medium power applications with shielded cables.

Thanks to Stäubli's expertise, we can offer a modular metal connector that meets the size constraints of new rolling stock perfectly.

Whatever the type of rolling stock, the modular metal connector concept offered by the EvoTrak lite range meets the requirements of rolling stock market:

- Railway standards
- Harsh environment
- Compactness
- Easy mounting and maintenance

Thanks to the unique and proven MULTILAM Technology, our EvoTrak lite connectors guarantee long life and reliability in the most demanding applications.

Its IP2X feature allows for safe handling.



### Applications for EvoTrak lite

This compact and flexible solution is mainly intended to applications installed along the whole traction chain:

- Auxiliary interface power supplies (HVAC, converter, transformer...)
- Battery interfaces
- Inter-car solutions
- Car/bogie interfaces
- Motor connections

### Possible configurations

- Straight connections
- Straight plug on panel receptacle
- 90° angled connector (male & female)

<b>Technical data</b>	
Railway applications – IEC 62847	
Number of poles	<b>1 to 4</b>
Nominal current/Temperature rise	<b>up to 300 A/50 K</b>
Nominal voltage	<b>up to 1500 V</b>
Test voltage (r.m.s withstand voltage)	<b>4.6 kV</b>
Cable cross section	<b>10 mm<sup>2</sup> – 70 mm<sup>2</sup></b>
Degree of protection, mated – IEC 60529	<b>IP66/IP67</b>
Personal Safety, unmated - IEC 60529	<b>IP2X (up to 1000 V)</b>
Clearance and creepage distances – EN 50124-1 Overvoltage category and pollution degree – IEC 62497-1	<b>OV3 – PD3</b>
Fire Protection – EN 45545-2	<b>HL3 R22/R23</b>
Type of termination	<b>Crimping and screwing</b>
Vibrations and shocks – EN 61373	<b>Category 2 – bogie mounted</b>
Mating cycles	<b>500</b>
Material Inserts Contacts Screws Metal parts	<b>PA (UL 94V0) Cu (Ag) Stainless steel Zamak</b>
Operating temperature	<b>-40 °C ... +120 °C</b>
Ambient temperature	<b>-50 °C ... +70 °C</b>
Salt spray test – IEC 62847	<b>500 hours</b>



### Assembly instructions MA425

[www.staubli.com/electrical](http://www.staubli.com/electrical)



● Stäubli Units    ○ Representatives/Agents

# Global presence of the Stäubli Group

[www.staubli.com](http://www.staubli.com)