

EvoTrak lite

Modular 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.



Compact solution

360° shielding



Segregation of phases

Modularity

IP2X – standard for male parts (optional for female parts)



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)

Technical data	
Railway applications – IEC 62847	
Number of poles	1 to 4
Nominal current/Temperature rise	up to 300 A/50 K
Nominal voltage	up to 1500 V
Test voltage (r.m.s withstand voltage)	4.6 kV
Cable cross section	10 mm² – 70 mm²
Degree of protection, mated – IEC 60529	IP66/IP67
Personal Safety, unmated - IEC 60529	IP2X (up to 1000 V)
Clearance and creepage distances – EN 50124-1 Overvoltage category and pollution degree – IEC 62497-1	OV3 – PD3
Fire Protection – EN 45545-2	HL3 R22/R23
Type of termination	Crimping and screwing
Vibrations and shocks – EN 61373	Category 2 – bogie mounted
Mating cycles	500
Material Inserts Contacts Screws Metal parts	PA (UL 94V0) Cu (Ag) Stainless steel Zamak
Operating temperature	-40 °C ... +120 °C
Ambient temperature	-50 °C ... +70 °C
Salt spray test – IEC 62847	500 hours



Assembly instructions MA425

www.staubli.com/electrical



● Stäubli Units ○ Representatives/Agents

Global presence of the Stäubli Group

www.staubli.com