

Modular Power Connector MPC3-BS – angled

Railwayline | Industrial Connectors

EN



Modular Power Connector – MPC

The modular power connector (MPC) can be used in the following areas of application:

- All rail vehicles: Regional trains, high-speed trains, subway trains, locomotives, etc.
- All on-board power applications for roof or undercarriage gangway connections, traction converter and battery outputs, connection between carriage body and bogie/carriage body and engine

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

Key features include:

- Modularity featuring multiple configurations
- High shock and vibration resistance
- Compact solutions
- Easy and quick installation

- Suitable for harsh environments
- Easy and fast maintenance
- Same system for every power connection



Dynamic Cable Option (DCO), optional

MPC3-BS in angled version

The compact solution is suitable for the following areas of application:

- On-board power applications:
 - inter-car connection on the roof or under car
 - traction or auxiliary converter outputs
 - battery outputs
 - body to bogie and body to motor connection

Possible combinations:

- Angled to angled
- Angled to surface mounted socket
- Angled to straight
- Available as pin or socket version
- Size 1 for contact diameter 14 mm or Size 2 for contact diameter 20 mm

- Compatible with all optional components of the MPC range:
 - for dynamic applications: Dynamic Cable Option (DCO)
 - for shielded applications (available soon)

Technical data Railway applications – IEC 62847	
Number of poles	1 to 4 (Size 1 and Size 2)
Rated current/Temperature rise	up to 700 A/50 K
Rated voltage	up to 3600 V
Test voltage (r.m.s withstand voltage)	9,2 kV
Cable cross section	Size 1 50 mm ² – 150 mm ² Size 2 120 mm ² – 240 mm ²
Degree of protection, mated – IEC 60529	IP66/IP67
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
Vibrations and shocks – EN 61373	Category 2 – bogie mounted
Mating cycles	500
Material	Contact supports Contacts Screws End pieces
	PA (UL 94V0) Cu (Ag) Stainless steel Zamak
Operating temperature	-40 °C to +120 °C
Ambient temperature	-50 °C to +70 °C
Salt spray test – IEC 62847	240 hours



Assembly instructions MA413

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