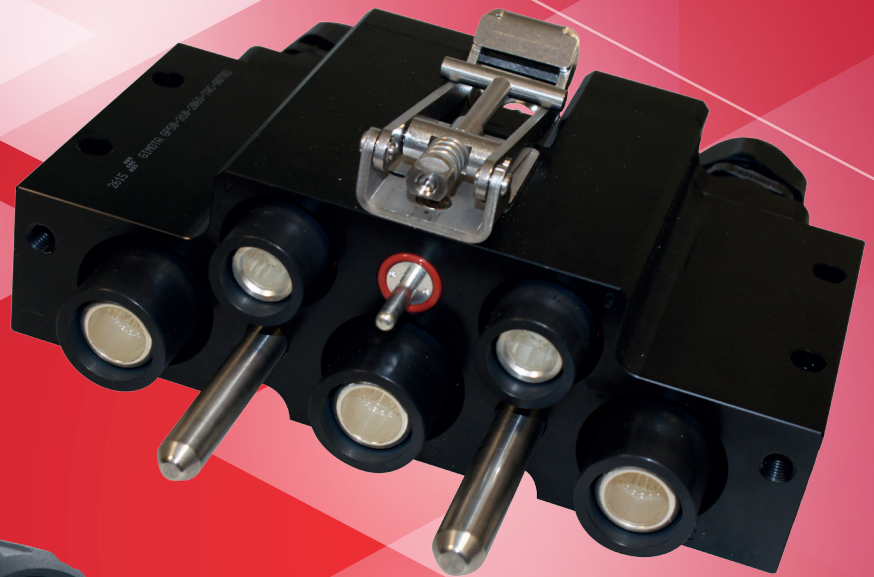


# GIMOTA AG

## GP Power Connectors 2016



## Gimota AG | Tailor-made products

### GP - Power connectors

GP Power Connectors from Gimota Inc. are designed for high-power connections with high current and tension requirements. They can be used for example in connections between driving motors and power converters, inter-car connections/jumper cables as well as for inverters and battery connections.

With an applicable tension of up to 3600VAC and 1000A current the GP connectors fulfill most of the requirements and can be individually adapted to the specific application engineering needs. The connector can be realized in different combinations from 1 pole to 12 poles, for cable cross sections from 50mm<sup>2</sup> up to 240mm<sup>2</sup>, as well as different cable terminations with strain relief, special mating mechanisms and separate grounding contacts are available on demand.

The sturdy connector achieves an ingress protection of IP66/67/69 according to DIN EN 60529 in mated condition and are designed for harsh environment as conceivable in railway applications.

The materials used for the GP connector system conform with the RoHS regulations and are compliant with the European Norm EN 50467 "Railway applications - rolling stock - electrical connectors requirements and test methods". The contact inserts comply with the fireprotection class according to UNI CEI 11170-3 LR4 and NFF 16-102/4.

GP Power Connectors are individually designed and adapted to the project specific needs and generally made to order. This allows high flexibility in covering all kinds of requirements. It is our pleasure to realise the most economic and appropriate solution with our customers.

#### Electrical properties

Rated insulation voltage	[V] AC	... 3600
Rated current	[A]	... 1000
Test voltage	[V] AC	... 9500
Overvoltage category		OV4
Pollution degree <sup>1</sup>		PD4
Insulation resistance	[MΩ]	... 5000

Conforms European norm EN50467 "Railway applications - rolling stock - electrical connectors requirements and test methods"

<sup>1</sup> - Protection class: IP67 (mated connectors)

#### Mechanical properties

Number of contacts		1 - 12
Strand/wire adaptation		Crimp version
Wire cross-section mm <sup>2</sup>	mm <sup>2</sup>	50 - 240
Connecting life cycle of contacts (silver)	mating cycles	< 200
Contact material		4 μm Ag over Cu-alloy

#### Mechanical properties shell part

Housing		Aluminium alloy black
Cable strain relief		different cable terminations
Insulators	Thermoplastic	Fire behaviour according to UNI CEI 11170-3 LR4 and NFF 16-102 exigency 4.
Operating temperatur	[°C]	- 55 ... +100
Ingress protection (IEC EN 60529) fully tightened		up to IP69



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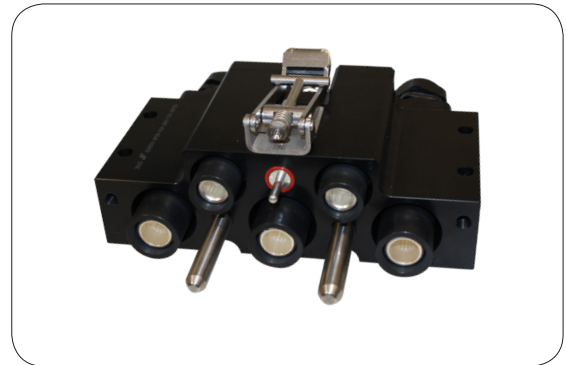
### Example: 8 pole connector

Number of contacts		8
Wire cross-section	mm <sup>2</sup>	8 x 240
Rated voltage	[V] DC	2100
Rated current	[A]	1000
Cable strain relief	MS3057	Cable clamp type C



### Example: 5 pole connector

Number of contacts		5
Wire cross-section	mm <sup>2</sup>	3 x 150 / 2 x 50
Rated voltage	[V] DC	3600
Rated current	[A]	675
Cable strain relief		ANAMET (Anaconda)



### Example: 2 pole connector

Number of contacts		2
Wire cross-section	mm <sup>2</sup>	3 x 185
Rated voltage	[V] DC	1000
Rated current	[A]	1000
Cable strain relief	MS3057	Cable clamp type C



### Example: single pol connector

Number of contacts		1
Wire cross-section	mm <sup>2</sup>	1 x 240
Rated voltage	[V] DC	1500
Rated current	[A]	1000
Coding	yes	8



The provided data, images and technical specification drawings reflect the current engineering level and are to the best of our knowledge. This does not include any liability regarding the final application. Users of the products should make their own evaluation to determine the suitability for a specific application. Our liability for these products considers the stated level within our General Conditions only. GIMOTA AG reserves the right to adjust specified data and values as well as implementing technical adjustments of the products e.g. change of materials and processing technologies without prior notice as long as the specified values are not affected.

