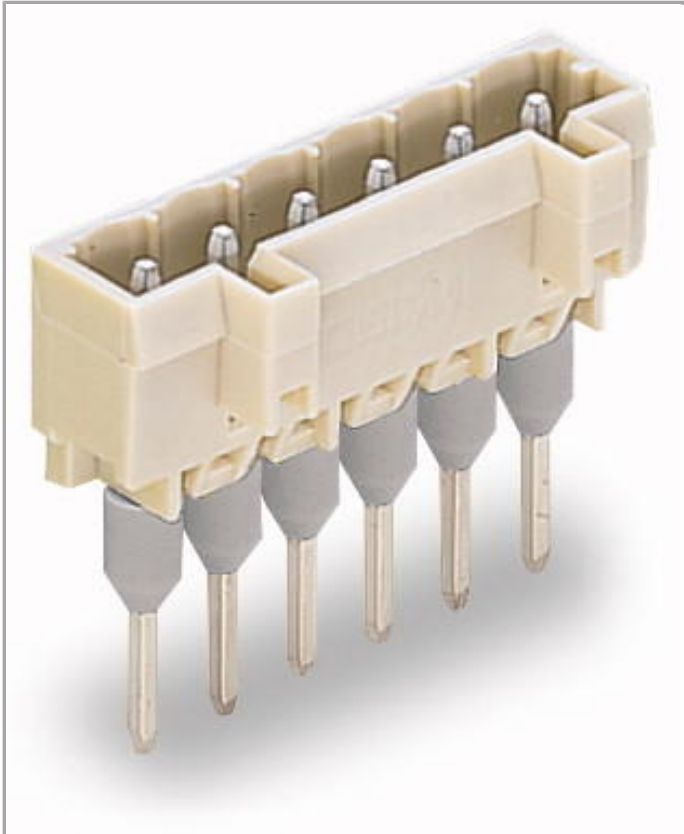


**Data sheet | Item number: 721-180/003-000**

Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight;  
100% protected against mismatching; Pin spacing 5 mm; 20-pole



[www.wago.com/721-180/003-000](http://www.wago.com/721-180/003-000)

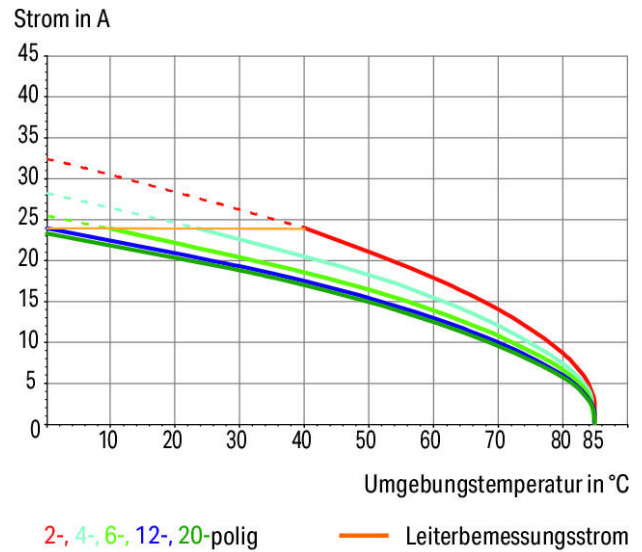


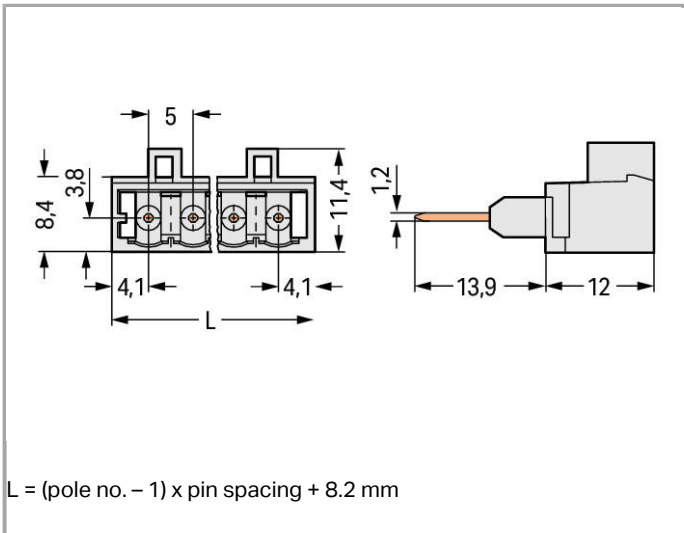
RoHS  Compliant

BOMcheck.net

Color:

**Derating-Kurve**  
1-Leiter-Federleiste (721-102/026-000) mit  
Stiftleiste (721-162/003-000)  
Rastermaß 5 mm / Leiterquerschnitt 2,5 mm<sup>2</sup> „f“  
In Anlehnung an: EN 60512-5-2 / Reduktionsfaktor 0,8





### Item description

- Pluggable connectors for rail-mount terminal blocks equipped with CAGE CLAMP® connection
- Male connectors with long contact pins connect to the termination ports of 280 Series Rail-Mount Terminal Blocks
- Pins can be touched when the connector is unplugged, so power should be supplied via terminal block (observe rated voltage!)
- 100 % protected against mismatching
- With coding fingers

Other variants can be requested via the WAGO sales department or, if necessary, configured at <https://configurator.wago.com/>: Other pole numbers

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	16 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

#### Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V



Rated current UL (Use Group D)	10 A
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### Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

### Connection data

No. of poles	20
Total number of potentials	20
Number of levels	1

### Geometrical Data

Pin spacing	5 mm (0.197 inch)
Width	103.2 mm / 4.063 inch
Height	25.9 mm / 1.02 inch
Height from the surface	12 mm / 0.472 inch
Depth	11.4 mm / 0.449 inch

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for front-entry wiring terminal block
Mismating protection	Yes

### Material Data

Color	light gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (Ecu)
Contact plating	tin-plated
Fire load	0.156 MJ
Weight	11.43 g

### Environmental Requirements



Limit temperature range	-60 ... +100 °C
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## Commercial data



Country of origin	PL
GTIN	4044918905947
Customs Tariff No.	85366990990
Product Group	3 (Multi Conn. System)

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Certificate name
	CSA DEKRA Certification B.V.	1466354
	KEMA/KEUR DEKRA Certification B.V.	2190761.01

### Ship Approvals

Logo	Approval	Certificate name
	ABS American Bureau of Shipping	14-HG1241537-PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	TAE000016Z

### UL-Approvals

Logo	Approval	Certificate name
	UL UL International Germany GmbH	E45172
	UR UL International Germany GmbH	E45171

## Compatible products

### Coding

Item no.: 231-129



Coding key; snap-on type

[www.wago.com/231-129](http://www.wago.com/231-129)

**General accessories**



**Item no.: 280-650/056-000**  
Spacer of same profile; suitable for 3-conductor terminal blocks of horizontal type

[www.wago.com/280-650/056-000](http://www.wago.com/280-650/056-000)



**Item no.: 280-654/056-000**  
Spacer of same profile; suitable for 3- and 4-conductor terminal blocks of angled type

[www.wago.com/280-654/056-000](http://www.wago.com/280-654/056-000)



**Item no.: 280-835/056-000**  
Spacer of same profile; suitable for 4-conductor terminal blocks of horizontal type

[www.wago.com/280-835/056-000](http://www.wago.com/280-835/056-000)



**Item no.: 280-902/056-000**  
Spacer of same profile; suitable for 2-conductor terminal blocks of horizontal type

[www.wago.com/280-902/056-000](http://www.wago.com/280-902/056-000)

**tools**



**Item no.: 280-440**  
Operating tool; of insulating material; 10-way

[www.wago.com/280-440](http://www.wago.com/280-440)

**Downloads**

**smartDATA**

**PCB libraries**

TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System) Compatible with TARGET PCB Design Software Version 17.x	1.1.0 Oct 6, 2014	ZIP 7.4 MB	Download
EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with EAGLE PCB Design Software Version 6.x or higher	2.1 Nov 17, 2017	ZIP 6.2 MB	Download
DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) Compatible with DesignSpark PCB Version 4.x or higher	2.1 Oct 6, 2014	ZIP 6.1 MB	Download

**CAD data**

3D Download 721-180/003-000	URL	Download
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Subject to changes.

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