

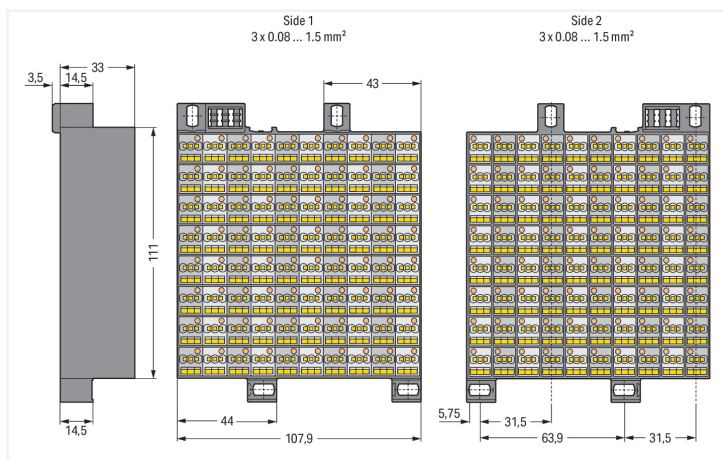
## Data Sheet | Item Number: 726-721

Matrix patchboard; 80-pole; Marking 1-80; Colors of modules: gray/white; Module marking, side 1 and 2 vertical; gray/white/dark gray

<https://www.wago.com/726-721>



Color:  gray/white/dark gray



Dimensions in mm

### Matrix patchboards, 726 Series, CAGE CLAMP®

These matrix patchboards (item number 726-721) provide seamless electrical installations. Strip lengths must be between 8 and 10 mm when connecting conductors to these matrix patchboards. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a safe and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The item's dimensions are (107.9 x 132 x 36.5) mm (width x height x depth). These matrix patchboards are suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 1.5 mm<sup>2</sup> on one side and for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 1.5 mm<sup>2</sup> on the other side.

#### Electrical data

##### Ratings per IEC/EN

Nominal voltage (III/3)	500 V
Rated impulse withstand voltage (III / 3)	6 kV
Rated current	10 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

##### General information

Wiring direction	Front-entry wiring
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## Connection Data

### Connection 1

Connection type	Page 1
Connection technology	CAGE CLAMP®
Number of connection points	3
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Fine-stranded conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Strip length	8 ... 10 mm / 0.31 ... 0.39 inches
Pole number	80

### Connection 2

Connection type	Side 2
Number of connection points	3
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG
Fine-stranded conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 16 AWG

## Physical data

Width	107.9 mm / 4.248 inches
Height	132 mm / 5.197 inches
Depth	36.5 mm / 1.437 inches

## Mechanical data

Marking	1 ... 80
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## Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray/white/dark gray
Module color	white/gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	8.398 MJ
Weight	406.9 g

## Environmental requirements

### Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard

### Environmental Testing

Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed

**Environmental Testing**

Vibration and shock stress for rolling stock equipment Passed

**Commercial data**

Product Group	12 (Matrix Patch Board)
PU (SPU)	8 (1) pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966329612
Customs tariff number	85369010000

**Product Classification**

UNSPSC	39121409
eCl@ss 10.0	27-24-26-08
eCl@ss 9.0	27-24-26-08
ETIM 9.0	EC001604
ETIM 10.0	EC001604
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals**



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7986
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-127356
UL UL International Germany GmbH	UL 1059	E45172

**Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004426.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

**Downloads**

**Environmental Product Compliance**

<b>Compliance Search</b>
Environmental Product Compliance 726-721

## Documentation

Bid Text			
726-721	19.02.2019	xml 3.37 KB	<a href="#">↓</a>
726-721	21.02.2019	docx 14.65 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	
2D/3D Models 726-721	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 726-721	<a href="#">↓</a>
WSCAD Universe 726-721	<a href="#">↓</a>
ZUKEN Portal 726-721	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Connector

##### 1.1.1.1 Common potential terminal block



**Item No.: 726-904**

Additional module for matrix patchboards; for snap-on fixing to mounting adapter; insulated; with CAGE CLAMP®; gray

**Item No.: 726-903**

Additional module for matrix patchboards; for snap-on fixing to mounting adapter; with contact to mounting frame; with CAGE CLAMP®; white

#### 1.1.2 Ferrule

##### 1.1.2.1 Ferrule



**Item No.: 216-202**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray

#### 1.1.3 Insulation stop

##### 1.1.3.1 Insulation stop



**Item No.: 726-901**

Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 4 x 3 pieces/strip; white

**Item No.: 726-907**

Insulation stop; 0.25 - 0.5 mm<sup>2</sup> "s+f-st"; 4 x 3 pieces/strip; dark gray

**Item No.: 726-906**

Insulation stop; 0.25 mm<sup>2</sup> "s"; 0.14 - 0.25 mm<sup>2</sup> "f-st"; 4 x 3 pieces/strip; light gray

### 1.1.4 Jumper

#### 1.1.4.1 Jumper



**Item No.: 709-107**

Wire commoning chain; 0.5 mm<sup>2</sup>; insulated; gray

### 1.1.5 Marking

#### 1.1.5.1 Marker



**Item No.: 793-5501/000-006**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 793-5501/000-014**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



**Item No.: 793-5501/000-007**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 793-5501/000-023**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 793-5501/000-017**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 793-5501/000-012**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 793-5501/000-005**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item No.: 793-5501/000-024**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 793-5501/000-002**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



**Item No.: 793-5502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); stretchable 5 - 5.2 mm; Horizontal marking; snap-on type; white



**Item No.: 793-5566**

WMB marking card; as card; MARKED; 1 ... 50 (2x); stretchable 5 - 5.2 mm; Horizontal marking; snap-on type; white



**Item No.: 793-5500/793-035**

WMB marking card; as card; MARKED; X (100x); stretchable 5 - 5.2 mm; Horizontal marking; snap-on type; white



**Item No.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

#### 1.1.5.3 Marking strip



**Item No.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.6 Tool

#### 1.1.6.1 Operating tool

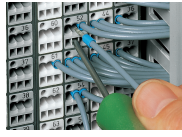


**Item No.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

## Installation Notes

### Conductor termination



	Max. conductor cross-section without ferrule (mm <sup>2</sup> /AWG)	Max. conductor cross-section (mm <sup>2</sup> /AWG) with ferrule	
		insulated Item No./Color 216-202/ gray	uninsulated Item No.
Side 2	1.5	0.75	1
Side 1	1.5	0.75	1
Side 2	2.5	1.5	1.5
Side 1	1.5	0.75	1

#### CAGE CLAMP® connection

Inserting a conductor via 210-719 Operating Tool (2.5 x 0.4 mm blade).

#### CAGE CLAMP® connection

Terminating ferruled conductors via operating tool.

#### Ferrules

### Conductor termination



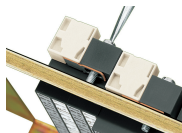
Inserting an insulation stop into conductor entry holes of matrix patchboards.

Insulation stop is in place.

### Testing



Testing with a 2.3 mm Ø test plug (210-137).



Snapping on an additional module with contact to mounting frame.

Assembling a matrix patchboard with additional module – direct connection to the mounting frame.



Installation example:  
Matrix patchboards in a frame

Marking



Factory-marked modules (Side 1: 1, 2, 3, 4 ...)

Individual group marking via WMB Multi Marking System