

## Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Marshalling patchboard, Nom. voltage: 500 V, Nominal current: 17.5 A, Cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 12 - 26, Connection type: Push-in connection, Number of positions: 48, Number of connections: 288, Width: 66 mm, Length: 111 mm, Color: gray, Color of connection elements: blue, Assembly: Wall mounting, 19" rack

### Why buy this product

- ✓ For mounting in 19" racks
- ✓ Blue design for use in EXi areas
- ✓ High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- ✓ Tool-free wiring in a confined space thanks to compact size
- ✓ Clear representation of actuation and terminal points through vertical conductor routing

### Key Commercial Data

Packing unit	1 STK
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### Environmental Product Compliance

China RoHS	No hazardous substances above threshold values
------------	--

#### General

Note	Labeled from 1 - 48
Number of positions	48
Number of levels	1
Number of connections	288
Nominal cross section	1.5 mm <sup>2</sup>
Color	gray
Color of connection elements	blue

# Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

## Technical data

### General

Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	4 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	22 A (With a conductor cross section of 2.5 mm <sup>2</sup> and extensive wiring)
	12 A (With a conductor cross section of 2.5 mm <sup>2</sup> and wiring in a confined space)
Nominal current I <sub>N</sub>	17.5 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	No
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

### Dimensions

Width	66 mm
Length	111 mm
Height	30 mm

### Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>

# Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

## Technical data

### Connection data

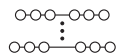
Conductor cross section AWG min.	26
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm <sup>2</sup>
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1

### Standards and Regulations

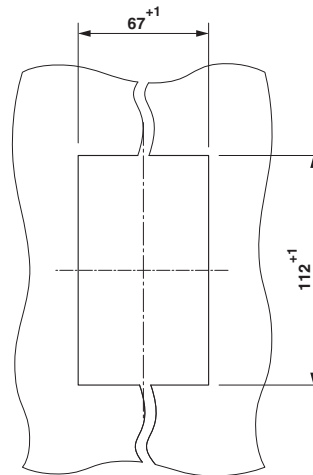
Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

## Drawings

Circuit diagram



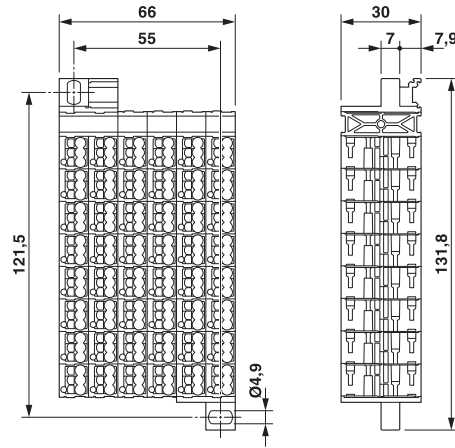
Dimensional drawing



Panel cutout

# Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

Dimensional drawing



## Classifications

eCl@ss

eCl@ss 5.1	27141124
eCl@ss 6.0	27141124
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 5.0	EC000897
----------	----------

## Accessories

Accessories

Bridge

Wire bridge - DB 50- 90 BU - 2821180

Wire bridge, Color: blue

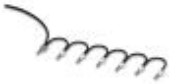


## Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

### Accessories

Wire bridge - DB 50- 90 BK - 2820916

Wire bridge, Color: black



Wire bridge - DB 50- 90 GY - 2820929

Wire bridge, Color: gray



Wire bridge - DB 50- 90 RD - 2864639

Wire bridge, Color: red



### Mounting material

Flange cover - DF-PTMC-O - 3270400



Flange cover, for direct mounting above, Length: 30 mm, Width: 22 mm, Height: 13 mm, Color: gray

Flange cover - DF-PTMC-U - 3270401



Flange cover, for direct mounting below, Length: 29.1 mm, Width: 22 mm, Height: 12.8 mm, Color: gray

## Marshalling patchboard - PTMC 1,5/48-3 /BU 19Z - 3270321

### Accessories

Adapter - DF-PTMC-NS - 3270403



Adapter, for mounting on a DIN rail, Length: 64 mm, Width: 22 mm, Color: gray

---

Marker adapter - DF-PTMC-ZB - 3270410



Marker adapter, for accommodating the marking, Length: 30 mm, Width: 11 mm, Height: 13 mm, Color: gray

---

### Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

---

Screwdriver - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S