

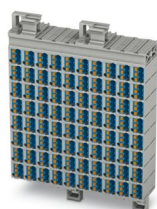
PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

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 documentation. Our general terms of use for downloads are valid.



Marshalling patchboard, Labeled from 1 - 80, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, cross section: 0.14 mm² - 2.5 mm², mounting: Panel mounting, 19" rack, color: gray, color of connection elements: blue

Your advantages

- Clear representation of actuation and terminal points through vertical conductor routing
- Tool-free wiring in a confined space thanks to compact size
- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- For mounting in 19" racks
- Blue version for using in intrinsically safe circuits in potentially explosive areas (type of protection Ex i)

Commercial data

Item number	3270327
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	BE6212
Catalog page	Page 63 (C-1-2019)
GTIN	4055626058443
Weight per piece (including packing)	376.716 g
Weight per piece (excluding packing)	376.716 g
Customs tariff number	85369010
Country of origin	PL

PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Technical data

Notes

General	Labeled from 1 - 80
---------	---------------------

Product properties

Product type	Marshalling terminal
Number of positions	80
Number of connections	480
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	480
Nominal cross section	1.5 mm ²
Rated cross section AWG	14
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Nominal current	17.5 A
Maximum load current	24 A (in case of a 2.5 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.) 12 A (in case of a 2.5 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	500 V

Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm ² ... 2.5 mm ²
Conductor cross section, rigid [AWG]	20 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² ... 1.5 mm ²

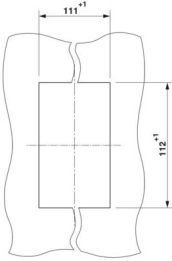
PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Dimensions

Dimensional drawing	
Width	110 mm
Height	111 mm
Depth	30 mm

Material specifications

Color	gray (RAL 7042)
Color of connection elements	blue
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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

Electrical tests

Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg
	2.5 mm ² / 0.7 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s ²) ² /Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

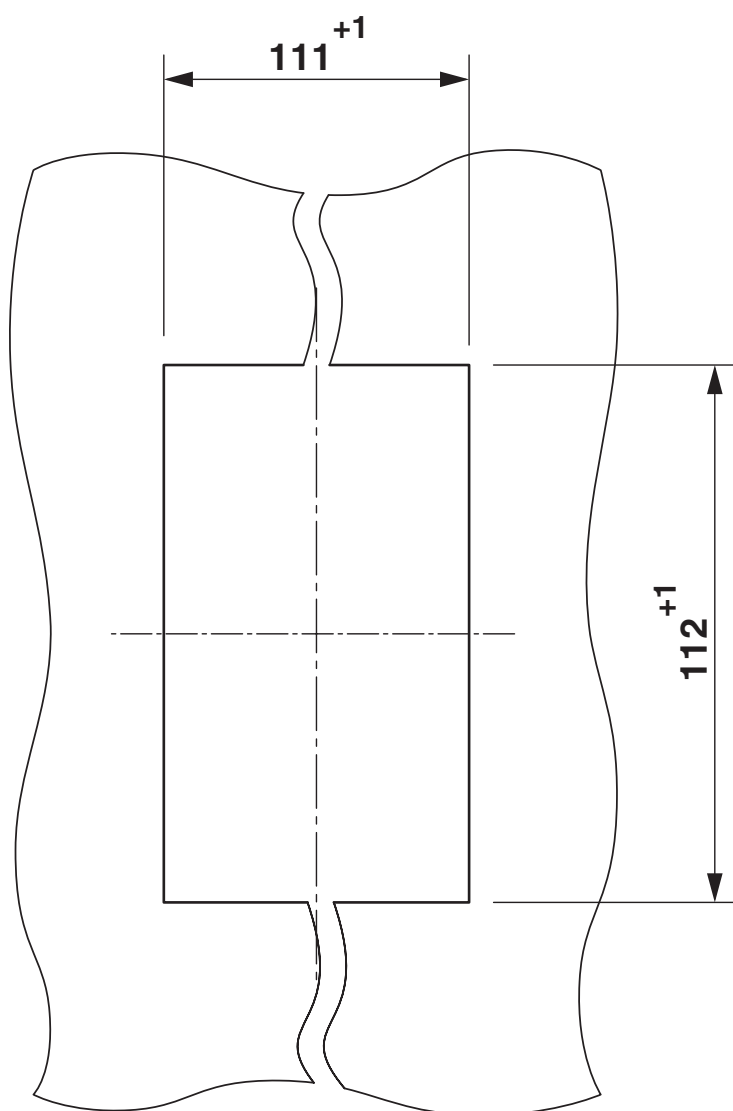
Connection in acc. with standard	IEC 60947-7-1
----------------------------------	---------------

Mounting

Mounting type	Panel mounting
	19" rack

Drawings

Dimensional drawing



Panel cutout

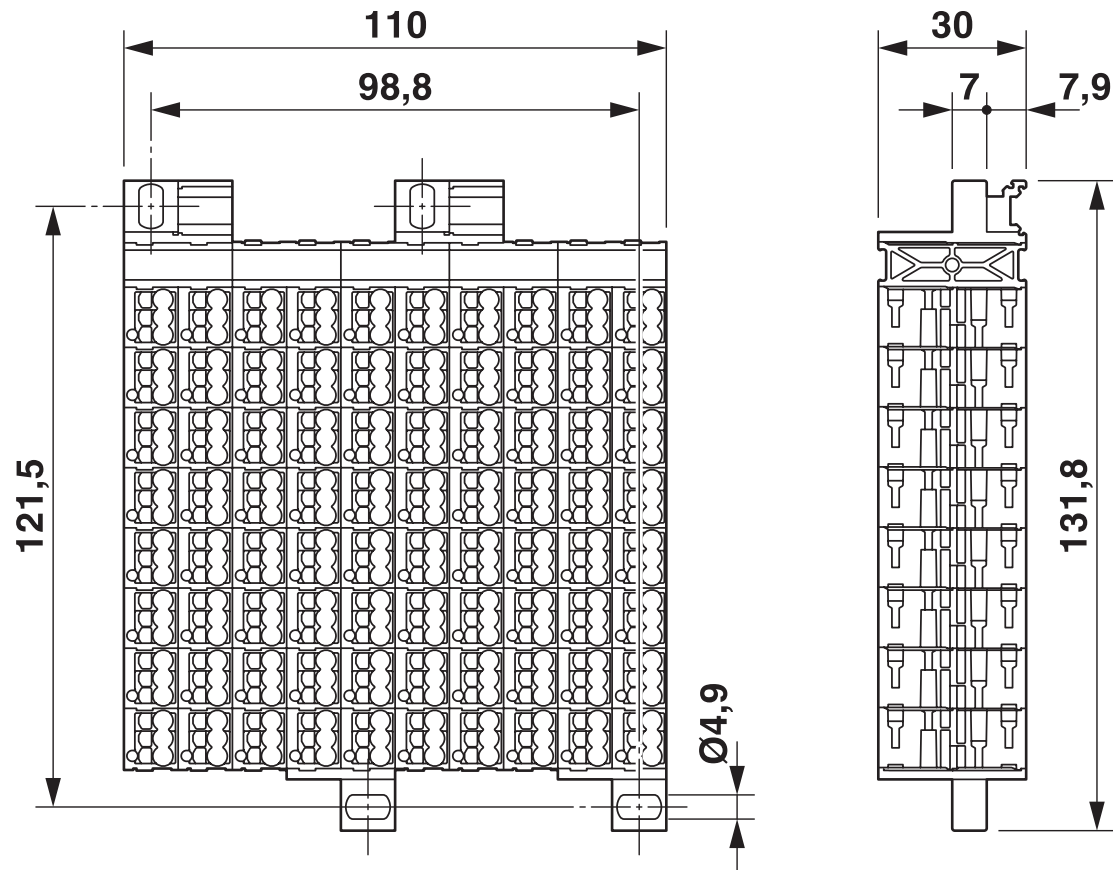
PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard

3270327

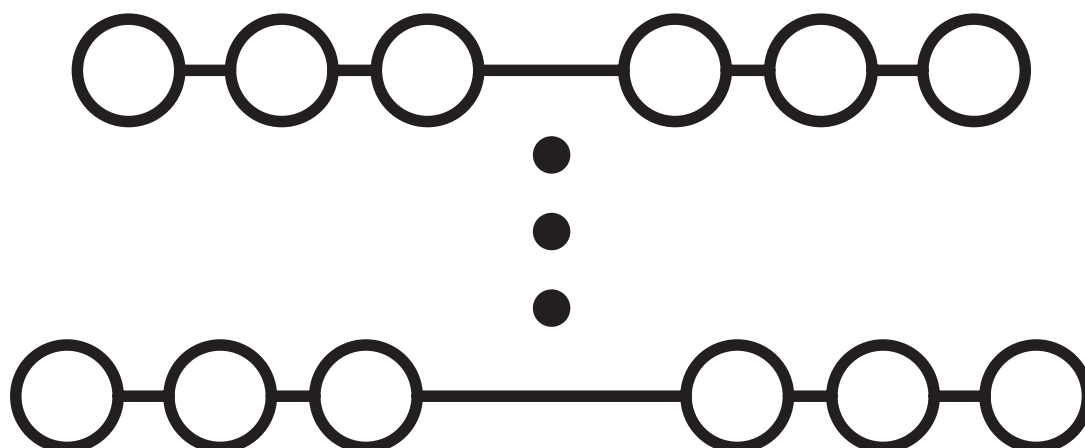
<https://www.phoenixcontact.com/sg/products/3270327>



Dimensional drawing



Circuit diagram



PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3270327>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	10 A	24 - 16	-
Use group C	300 V	10 A	24 - 16	-
Use group D	300 V	10 A	24 - 16	-

 EAC Approval ID: RU C-DE.BL08.B.00682				
---	--	--	--	--

 cULus Recognized Approval ID: E60425				
--	--	--	--	--

 EAC Approval ID: EACKZ 08593				
--	--	--	--	--

 cULus Recognized Approval ID: E60425				
--	--	--	--	--

PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Classifications

ECLASS

ECLASS-13.0	27250106
-------------	----------

ETIM

ETIM 9.0	EC000897
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

PTMC 1,5/80-3 /BU 19Z - Marshalling patchboard



3270327

<https://www.phoenixcontact.com/sg/products/3270327>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT SEA Pte. Ltd.
105 Eunos Avenue 3, #04-00
Singapore 409836
+65 6228 4900
marketing@phoenixcontact.com.sg