

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

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.



Shield connection terminal block, nom. voltage: 48 V, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: white

## Your advantages

- The compact design and front connection enable wiring in a confined space
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

## Commercial data

Item number	3209596
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2223
GTIN	4055626355306
Weight per piece (including packing)	13.3 g
Weight per piece (excluding packing)	13.3 g
Customs tariff number	85369010
Country of origin	DE

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

## Technical data

### Notes

#### General

Note	The maximum load current of a single clamping unit must not be exceeded.
------	--

### Product properties

Product type	Shield connection clamp
Product family	PT
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	1
Number of connections	4
Number of rows	1
Potentials	1

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0 W

### Connection data

Number of connections per level	4
Nominal cross section	2.5 mm <sup>2</sup>
Connection method	Push-in connection
Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

Nominal voltage	48 V
-----------------	------

Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

## Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	72.2 mm
Depth	35.3 mm
Depth on NS 35/7,5	36.8 mm
Depth on NS 35/15	44.3 mm

## Material specifications

Color	white (RAL 9010)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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

## Cable/line

External cable diameter	3 mm ... 8 mm
-------------------------	---------------

## Mechanical properties

Mechanical data

Open side panel	Yes
-----------------	-----

## Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 1, class B, body mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12g

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

## Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 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 ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block

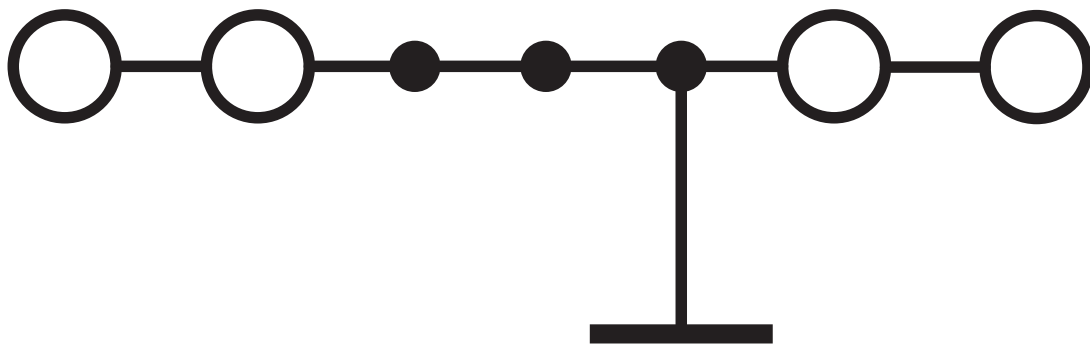


3209596

<https://www.phoenixcontact.com/us/products/3209596>

## Drawings

Circuit diagram



# PT 2,5-QUATTRO-SG WH - Shield connection terminal block




3209596

<https://www.phoenixcontact.com/us/products/3209596>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3209596>

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
B	-	-	26 - 12	-
C	-	-	26 - 12	-
F	-	-	26 - 12	-

 <b>EAC</b> Approval ID: KZ7500651131219505	
---	--

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

## Classifications

### ECLASS

ECLASS-13.0	27250120
ECLASS-15.0	27250120

### ETIM

ETIM 10.0	EC002020
-----------	----------

### UNSPSC

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

# PT 2,5-QUATTRO-SG WH - Shield connection terminal block



3209596

<https://www.phoenixcontact.com/us/products/3209596>

## 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 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)