

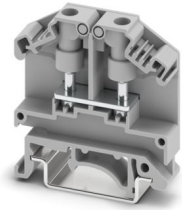
# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

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.



Universal terminal block with bolt connection, cross section: 0.1 - 2.5 mm<sup>2</sup>, width: 9 mm, color: Gray

## Commercial data

Item number	0790530
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE45
Product key	BE4513
GTIN	4017918005641
Weight per piece (including packing)	12.89 g
Weight per piece (excluding packing)	11.54 g
Customs tariff number	85369010
Country of origin	IN

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

## Technical data

### Notes

#### General

Note	The rated insulation voltage applies to insulated cable lugs acc. DIN 46237:1970-07 and for uninsulated cable lugs acc. DIN 46234:1980-03 with shrink sleeve.
------	---

### Product properties

Product type	Bolt connection terminal block
Product family	OTTA
Number of connections	2
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	0.77 W

### Connection data

Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>
Connection method	Bolt connection
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	24 A (with a 2.5 mm <sup>2</sup> conductor cross-section)
Nominal voltage	800 V

#### Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section range AWG	24 ... 14 (converted acc. to IEC)
Hole diameter	3.2 mm
Width	7.6 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Identification color of ring cable lugs : red	1.5 mm <sup>2</sup>

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

Identification color of ring cable lugs : blue	2.5 mm <sup>2</sup>
Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section range AWG	20 ... 14 (converted acc. to IEC)
Hole diameter	3.2 mm
Width	7.6 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm

## Dimensions

Width	9 mm
End cover width	1.5 mm
Height	43.5 mm
Depth on NS 32	50.5 mm
Depth on NS 35/7,5	45.5 mm
Depth on NS 35/15	53 mm

## Material specifications

Color	gray (RAL 7042)
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

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2 kV
-----------------------	------

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross-section/weight	2.5 mm <sup>2</sup> / 0.7 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

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

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

## 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 %

## Standards and regulations

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

## Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32

# OTTA 2,5 - Bolt connection terminal block

0790530

<https://www.phoenixcontact.com/us/products/0790530>



## Drawings

### Circuit diagram



# OTTA 2,5 - Bolt connection terminal block





0790530


<https://www.phoenixcontact.com/us/products/0790530>


## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0790530>


 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	600 V	20 A	22 - 14	-

 <b>UL Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
B				
	600 V	20 A	-	-
C				
	600 V	20 A	-	-

 <b>IECEE CB Scheme</b> Approval ID: DE1-64022				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	800 V	24 A	-	0.2 - 2.5

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00540				
---	--	--	--	--

 <b>VDE Zeichengenehmigung</b> Approval ID: 40017896				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	800 V	24 A	-	0.2 - 2.5

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

<b>DNV</b> Approval ID: TAE00001CT				
---------------------------------------	--	--	--	--

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

## Classifications

### ECLASS

ECLASS-13.0	27250101
ECLASS-14.0 ASSET	27250101
ECLASS-15.0	27250101

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

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

# OTTA 2,5 - Bolt connection terminal block



0790530

<https://www.phoenixcontact.com/us/products/0790530>

## 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)