

# UPBV 2,5/12 - Plug

3045512

<https://www.phoenixcontact.com/us/products/3045512>

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.



Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 12, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 4 mm<sup>2</sup>, color: gray

## Your advantages

- Can be bridged with FBS ... standard bridges
- Large-surface labeling option
- Practical coding option
- The connected conductors can be led directly into the cable duct to save space

## Commercial data

Item number	3045512
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE01
Product key	BE1144
GTIN	4046356055710
Weight per piece (including packing)	62.694 g
Weight per piece (excluding packing)	59.219 g
Customs tariff number	85366990
Country of origin	TR

# UPBV 2,5/12 - Plug



3045512

<https://www.phoenixcontact.com/us/products/3045512>

## Technical data

### Notes

Notes on operation	COMBI connectors are connectors without switching power in accordance with IEC 61984 and can be connected or disconnected without load or voltage when used as intended
--------------------	---

### Product properties

Product type	Terminal plug
Number of positions	12
Pitch	5.2 mm
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
---------------------	------

### Connection data

Nominal cross section	2.5 mm <sup>2</sup>
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	9 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
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 (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 same cross section, rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	24 A (with 4 mm <sup>2</sup> conductor cross-section)
Nominal voltage	500 V

# UPBV 2,5/12 - Plug



3045512

<https://www.phoenixcontact.com/us/products/3045512>

## Dimensions

Width	62.4 mm
Height	20.5 mm
Depth	47 mm
Length	20.5 mm
Pitch	5.2 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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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)	28 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

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-60 °C (max. operating temperature see derating curve)
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 61984
----------------------------------	-----------

## Drawings

Diagram



The figure shows the derating curve of the UT 2,5/1P... terminal block in connection with the UPBV 2,5 plug

# UPBV 2,5/12 - Plug

3045512

<https://www.phoenixcontact.com/us/products/3045512>



Circuit diagram



# UPBV 2,5/12 - Plug



3045512

<https://www.phoenixcontact.com/us/products/3045512>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3045512>

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
<b>B</b>				
	600 V	20 A	26 - 12	-
Multi-conductor connection	600 V	20 A	26 - 16	-
<b>C</b>				
	600 V	20 A	26 - 12	-
Multi-conductor connection	600 V	20 A	26 - 16	-
<b>D</b>				
	600 V	5 A	26 - 12	-
Multi-conductor connection	600 V	5 A	26 - 16	-

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

# UPBV 2,5/12 - Plug

3045512

<https://www.phoenixcontact.com/us/products/3045512>



## Classifications

### ECLASS

ECLASS-13.0	27250306
ECLASS-15.0	27250306

### ETIM

ETIM 10.0	EC002021
-----------	----------

### UNSPSC

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

# UPBV 2,5/12 - Plug



3045512

<https://www.phoenixcontact.com/us/products/3045512>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	d377b49c-fa16-4625-8900-0912c16a3134

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)