

Plug - UPBV 2,5/ 1 BU

3045240

<https://www.phoenixcontact.com/us/products/3045240>



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Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 1, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: blue

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	3045240
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to Order (non-returnable)
Sales Key	B01
Product Key	BE1144
Catalog Page	Page 306 (C-1-2019)
GTIN	4046356113342
Weight per Piece (including packing)	5.489 g
Weight per Piece (excluding packing)	5.489 g
Customs tariff number	85366990
Country of origin	TR

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Technical Data

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
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Connection data

Nominal cross section	2.5 mm ²
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 solid	0.14 mm ² ... 4 mm ²
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.14 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal current	24 A
Maximum load current	24 A (with 4 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	2.5 mm ²

Dimensions

Width	5.2 mm
Height	47 mm
Length	20.5 mm
Pitch	5.2 mm

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Material specifications

Color	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))	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

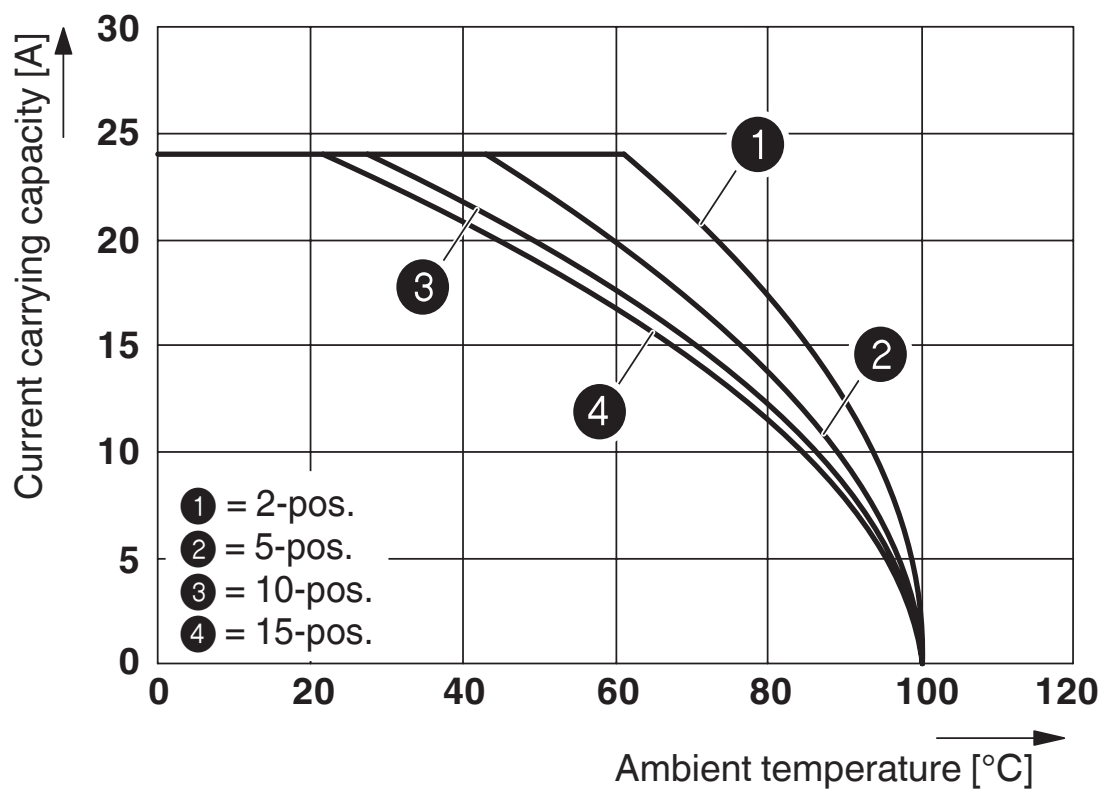
Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ...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

Standards and regulations

Connection in acc. with standard	IEC 61984
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Drawings

Diagram



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

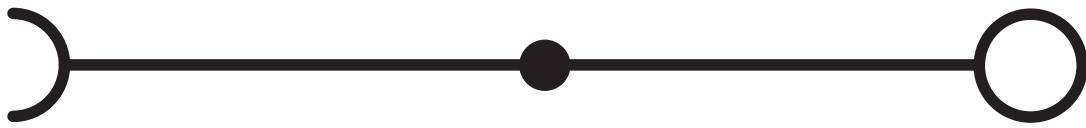
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Circuit diagram



Plug - UPBV 2,5/ 1 BU

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Approvals



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E60425

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	600 V	20 A	26 - 12	-
Multi-conductor connection	600 V	20 A	26 - 16	-
Use group C				
	600 V	20 A	26 - 12	-
Multi-conductor connection	600 V	20 A	26 - 16	-
Use group D				
	600 V	5 A	26 - 12	-
Multi-conductor connection	600 V	5 A	26 - 16	-

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Classifications

ECLASS

ECLASS-9.0	27141151
ECLASS-10.0.1	27141151
ECLASS-11.0	27141151

ETIM

ETIM 8.0	EC002021
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UNSPSC

UNSPSC 21.0	39121400
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories



Note: Applying some accessories below might limit this product.

Plug-in bridge

Plug-in bridge - FBS 2-5 - 3030161

<https://www.phoenixcontact.com/us/products/3030161>



Plug-in bridge, pitch: 5.2 mm, color: red



Max. current carrying capacity: 24 A

Plug-in bridge

Plug-in bridge - FBS 3-5 - 3030174

<https://www.phoenixcontact.com/us/products/3030174>



Plug-in bridge, pitch: 5.2 mm, color: red



Max. current carrying capacity: 24 A

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Plug-in bridge

Plug-in bridge - FBS 4-5 - 3030187

<https://www.phoenixcontact.com/us/products/3030187>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBS 5-5 - 3030190

<https://www.phoenixcontact.com/us/products/3030190>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 24 A

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Plug-in bridge

Plug-in bridge - FBS 10-5 - 3030213

<https://www.phoenixcontact.com/us/products/3030213>

Plug-in bridge, pitch: 5.2 mm, color: red



 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBS 20-5 - 3030226

<https://www.phoenixcontact.com/us/products/3030226>

Plug-in bridge, pitch: 5.2 mm, color: red



 Max. current carrying capacity: 24 A

Plug - UPBV 2,5/ 1 BU

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Plug-in bridge

Plug-in bridge - FBS 50-5 - 3038930

<https://www.phoenixcontact.com/us/products/3038930>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBSR 2-5 - 3033702

<https://www.phoenixcontact.com/us/products/3033702>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 17.5 A

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Plug-in bridge

Plug-in bridge - FBSR 3-5 - 3001591

<https://www.phoenixcontact.com/us/products/3001591>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 17.5 A


Plug-in bridge

Plug-in bridge - FBSR 4-5 - 3001592

<https://www.phoenixcontact.com/us/products/3001592>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 17.5 A

Plug - UPBV 2,5/ 1 BU

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Plug-in bridge

Plug-in bridge - FBSR 5-5 - 3001593

<https://www.phoenixcontact.com/us/products/3001593>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 17.5 A


Plug-in bridge

Plug-in bridge - FBSR 10-5 - 3033710

<https://www.phoenixcontact.com/us/products/3033710>



Plug-in bridge, pitch: 5.2 mm, color: red

 Max. current carrying capacity: 17.5 A

Plug - UPBV 2,5/ 1 BU

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Plug-in bridge

Plug-in bridge - FBS 2-5 BU - 3036877

<https://www.phoenixcontact.com/us/products/3036877>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBS 3-5 BU - 3036880

<https://www.phoenixcontact.com/us/products/3036880>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A

Plug - UPBV 2,5/ 1 BU

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Plug-in bridge

Plug-in bridge - FBS 4-5 BU - 3036893

<https://www.phoenixcontact.com/us/products/3036893>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBS 5-5 BU - 3036903

<https://www.phoenixcontact.com/us/products/3036903>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A

Plug - UPBV 2,5/ 1 BU

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<https://www.phoenixcontact.com/us/products/3045240>



Plug-in bridge

Plug-in bridge - FBS 10-5 BU - 3036916

<https://www.phoenixcontact.com/us/products/3036916>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A


Plug-in bridge

Plug-in bridge - FBS 20-5 BU - 3036929

<https://www.phoenixcontact.com/us/products/3036929>



Plug-in bridge, pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A

Plug - UPBV 2,5/ 1 BU

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Plug-in bridge

Plug-in bridge - FBS 50-5 BU - 3032114

<https://www.phoenixcontact.com/us/products/3032114>



Plug-in bridge, Version with single- or double-sided cutting edge. Please keep in mind the possible impact on touch protection as well as air clearances and creepage distances., pitch: 5.2 mm, color: blue

 Max. current carrying capacity: 24 A

Latching

Latching - UPRZ - 3045570

<https://www.phoenixcontact.com/us/products/3045570>



Latching, length: 39.8 mm, width: 10 mm, number of positions: 2, color: orange

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<https://www.phoenixcontact.com/us/products/3045240>



Latching

Latching - UPR/ 2 - 3045567

<https://www.phoenixcontact.com/us/products/3045567>



Latching, length: 39.8 mm, width: 10 mm, number of positions: 2, color: orange

Strain relief

Strain relief - UPZ/ 2 - 3045554

<https://www.phoenixcontact.com/us/products/3045554>



Strain relief, length: 36.7 mm, width: 9.3 mm, number of positions: 2, color: black

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Shield connection clamp

Shield connection clamp - PSH 3- 6 - 3040591

<https://www.phoenixcontact.com/us/products/3040591>

Shield connection clamp, color: black



Shield connection clamp

Shield connection clamp - PSH 5-10 - 3040601

<https://www.phoenixcontact.com/us/products/3040601>

Shield connection clamp, color: black



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Screwdriver

Screwdriver - SZS 0,6X3,5 - 1205053

<https://www.phoenixcontact.com/us/products/1205053>

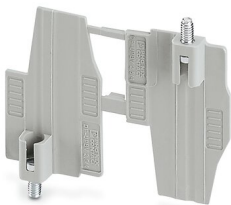


Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Flange cover

Flange cover - DF-UPBV 2,5/ 4 - 3060432

<https://www.phoenixcontact.com/us/products/3060432>



Flange cover, can be snapped onto the UPBV 2,5/... and UPBV 4/... plugs, length: 45.7 mm, width: 4.5 mm, height: 32 mm, color: gray

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Screwdriver

Screwdriver - SF-SL 0,6X3,5-100 S-VDE - 1212587

<https://www.phoenixcontact.com/us/products/1212587>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Test plugs

Test plugs - MPS-MT - 0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

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Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



Plug - UPBV 2,5/ 1 BU

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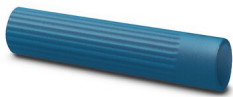


Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



Plug - UPBV 2,5/ 1 BU

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Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



Plug - UPBV 2,5/ 1 BU

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<https://www.phoenixcontact.com/us/products/3045240>



Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



Test adapter

Test adapter - PAI-4-N GY - 3032871

<https://www.phoenixcontact.com/us/products/3032871>

4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch



Plug - UPBV 2,5/ 1 BU

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Test plugs

Test plugs - PS-5 - 3030983

<https://www.phoenixcontact.com/us/products/3030983>



Test plugs, Modular test plug, color: red

Spacer plate

Spacer plate - DP PS-5 - 3036725

<https://www.phoenixcontact.com/us/products/3036725>



Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 29 mm, number of positions: 1, color: red

Plug - UPBV 2,5/ 1 BU

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Test plugs

Test plugs - PS-5/2,3MM RD - 3038723

<https://www.phoenixcontact.com/us/products/3038723>



Test plugs, color: red

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