PHŒNIX CONTACT

Plug - SPDB 2,5/13 - 3040520

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Plug, Connection method: Spring-cage connection, Number of positions: 13, Cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, Width: 67.6 mm, Height: 39 mm, Color: gray

The illustration shows a 6-position version

Product Features

- Plug with bridging option, for use with basic terminal blocks
- Tested for railway applications

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	67.09 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General

Number of levels	1
Number of connections	13
Nominal cross section	2.5 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Maximum load current	24 A (with a 2.5 mm² conductor cross section)
Rated surge voltage	6 kV

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 61984
Maximum load current	24 A (with 4 mm² conductor cross section)
Nominal current I_N	24 A
Nominal voltage U_N	500 V
Open side panel	No

Dimensions

Width	67.6 mm
Length	32.7 mm
Height	39 mm
	24.00 mm
Pitch	5.20 mm

Connection data

Connection method	Spring-cage connection
Connection in acc. with standard	IEC 61984
Conductor cross section solid min.	0.08 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.08 mm²
Conductor cross section flexible max.	2.5 mm²
Min. AWG conductor cross section, flexible	28
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm²
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection method	Plug connection

Standards and Regulations

Connection in acc. with standard	CSA

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Technical data

Standards and Regulations

	IEC 61984
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27141151
eCl@ss 7.0	27141151
eCl@ss 8.0	27141151

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC002021
ETIM 5.0	EC002021

UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121402

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / LR / GL / BV / RS / EAC / cULus Recognized

Ex Approvals

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Approvals

Approvals submitted

Approval details

CSA ⓈⒶ

	B	C
mm²/AWG/kcmil	24-12	24-12
Nominal current IN	20 A	20 A
Nominal voltage UN	300 V	300 V

UL Recognized ⓊⓁ

	B	C	D
mm²/AWG/kcmil	28-12	28-12	28-12
Nominal current IN	20 A	20 A	5 A
Nominal voltage UN	300 V	300 V	600 V

cUL Recognized ⒸⓊⓁ

	B	C	D
mm²/AWG/kcmil	28-12	28-12	28-12
Nominal current IN	20 A	20 A	5 A
Nominal voltage UN	300 V	300 V	600 V

LR

GL

BV

RS

EAC

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Approvals

cULus Recognized

Accessories

Accessories

Flange

Flange cover - DFS-SPDB 2,5 - 3061457

Flange cover, Length: 35.8 mm, Width: 4.5 mm, Height: 24.7 mm, Color: gray

Insulating sleeve

Insulating sleeve - ISH 2,5/0,2 - 3002843

Insulating sleeve, Color: white

Insulating sleeve - ISH 2,5/0,5 - 3002856

Insulating sleeve, Color: gray

Insulating sleeve - ISH 2,5/1,0 - 3002869

Insulating sleeve, Color: black

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Accessories

Jumper

Plug-in bridge - FBS 2-5 - 3030161

Plug-in bridge, Length: 22.7 mm, Width: 9 mm, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-5 - 3030174

Plug-in bridge, Length: 22.7 mm, Width: 14.2 mm, Number of positions: 3, Color: red

Plug-in bridge - FBS 4-5 - 3030187

Plug-in bridge, Length: 22.7 mm, Width: 19.4 mm, Number of positions: 4, Color: red

Plug-in bridge - FBS 5-5 - 3030190

Plug-in bridge, Length: 22.7 mm, Width: 24.6 mm, Number of positions: 5, Color: red

Plug-in bridge - FBS 10-5 - 3030213

Plug-in bridge, Length: 22.7 mm, Width: 50.6 mm, Number of positions: 10, Color: red

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Accessories

Plug-in bridge - FBS 20-5 - 3030226

Plug-in bridge, Number of positions: 20, Color: red

Plug-in bridge - FBS 50-5 - 3038930

Plug-in bridge, Number of positions: 50, Color: red

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

Plug-in bridge, Number of positions: 2, Color: blue

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

Plug-in bridge, Number of positions: 3, Color: blue

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

Plug-in bridge, Number of positions: 4, Color: blue

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

Plug-in bridge, Number of positions: 5, Color: blue

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

Plug-in bridge, Number of positions: 10, Color: blue

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

Plug-in bridge, Number of positions: 20, Color: blue

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

Plug-in bridge, Number of positions: 50, Color: blue

Plug-in bridge - FBS 2-5 GY - 3038969

Plug-in bridge, Number of positions: 2, Color: gray

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Plug-in bridge - FBS 3-5 GY - 3038972

Plug-in bridge, Number of positions: 3, Color: gray

Plug-in bridge - FBS 4-5 GY - 3038985

Plug-in bridge, Number of positions: 4, Color: gray

Plug-in bridge - FBS 5-5 GY - 3038998

Plug-in bridge, Number of positions: 5, Color: gray

Plug-in bridge - FBS 10-5 GY - 3039007

Plug-in bridge, Number of positions: 10, Color: gray

Plug-in bridge - FBS 20-5 GY - 3038671

Plug-in bridge, Number of positions: 20, Color: gray

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Plug-in bridge - FBS 50-5 GY - 3032127

Plug-in bridge, Number of positions: 50, Color: gray

Plug-in bridge - FBSR 2-5 - 3033702

Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBSR 3-5 - 3001591

Plug-in bridge, Number of positions: 3, Color: red

Plug-in bridge - FBSR 4-5 - 3001592

Plug-in bridge, Number of positions: 4, Color: red

Plug-in bridge - FBSR 5-5 - 3001593

Plug-in bridge, Number of positions: 5, Color: red

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Accessories

Plug-in bridge - FBSR 10-5 - 3033710

Plug-in bridge, Number of positions: 10, Color: red

Labeled terminal marker

Zack Marker strip, flat - ZBF 5 CUS - 0825025

Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671

Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697

Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821

Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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Accessories

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863

Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Marker for terminal blocks - UC-TMF 5 CUS - 0824638

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

Marker pen

Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Marker pen - X-PEN 0,35 - 0811228

Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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Accessories

Mounting material

Strain relief - PDZ/2 - 3040562

Strain relief, Length: 3 mm, Width: 9.6 mm, Height: 23 mm, Number of positions: 2, Color: black

Strain relief - PDZ/4 - 3040575

Strain relief, Length: 3 mm, Width: 19.9 mm, Height: 23 mm, Number of positions: 4, Color: black

Latching - PR - 3040559

Latching, Number of positions: 1, Color: orange

Latching - PR/2 - 3040630

Latching, Number of positions: 2, Color: orange

Latching - PRT/2 - 3040631

Latching, can only be released using a screwdriver, Number of positions: 2, Color: orange

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Accessories

Latching - PRZ - 3040614

Latching, Length: 3 mm, Width: 5.2 mm, Number of positions: 2, Color: orange

Screwdriver tools

Screwdriver - ST-BW - 1207608

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages

Shield connection

Shield connection clip - PSH 3- 6 - 3040591

Shield connection clip, Color: black

Shield connection clip - PSH 5-10 - 3040601

Shield connection clip, Color: black

Terminal marking

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Accessories

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

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Marker for terminal blocks - UC-TMF 5 - 0818153

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

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Marker for terminal blocks - UCT-TMF 5 - 0828744

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

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Drawings

Diagram

Derating curve for ST 2,5/ TWIN- ST/1P, 2,5- TWIN- /1P and for plug versions SP...

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versions
SP... .

Diagram

Derating
curve
for
STTB
2,5/
2P-QUATTRO/2P,
STTB
2,5/
2P-QUATTRO/4P
and
for
all
plug
versions
SP... .

Diagram

Circuit diagram

Derating
curve
for
ST
2,5-4L/1P,
ST
2,5-4L/2P
and
for
all
plug
versions
SP... .

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