

3040504

<https://www.phoenixcontact.com/sk/products/3040504>

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: 11, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm²- 4 mm², color: gray

Your advantages

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

Commercial data

Item number	3040504
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	BE2
Product key	BE2144
Catalog page	Page 322 (C-1-2019)
GTIN	4017918833183
Weight per piece (including packing)	54.4 g
Weight per piece (excluding packing)	54 g
Customs tariff number	85366990
Country of origin	PL

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



Technical data

Product properties

Product type	Terminal plug
Number of positions	11
Pitch	5.2 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

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

Connection data

Nominal cross section	2.5 mm ²
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.08 mm ² ... 4 mm ²
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without 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 the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 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	57.2 mm
Height	39 mm
Length	32.7 mm
Pitch	5.2 mm

Material specifications

Color	gray
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

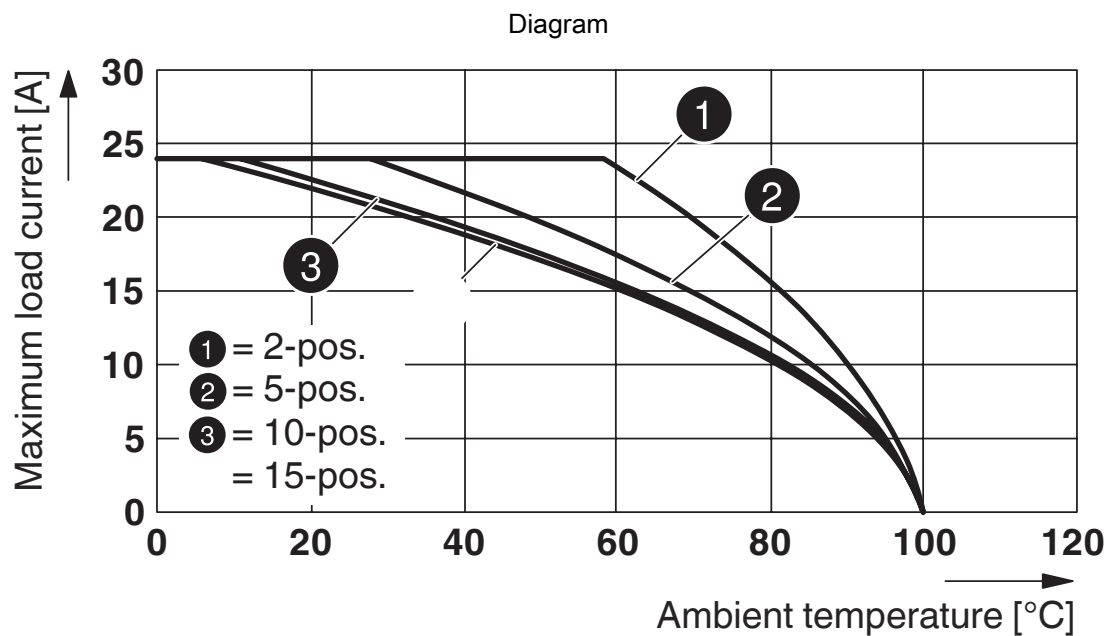
Ambient conditions

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 %

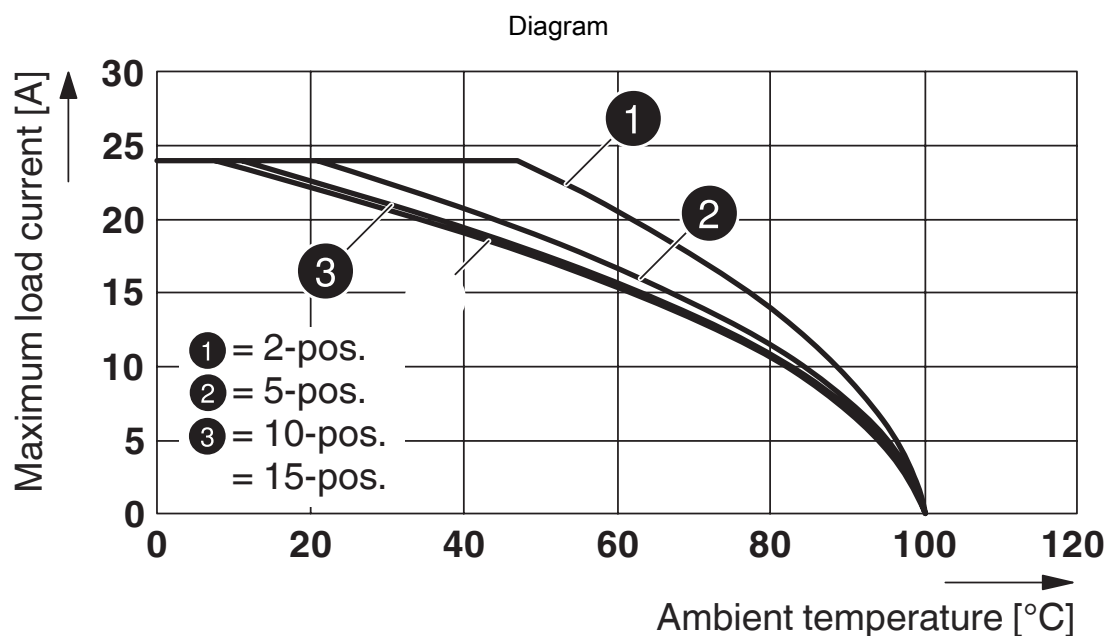
Standards and regulations

Connection in acc. with standard	IEC 61984
----------------------------------	-----------

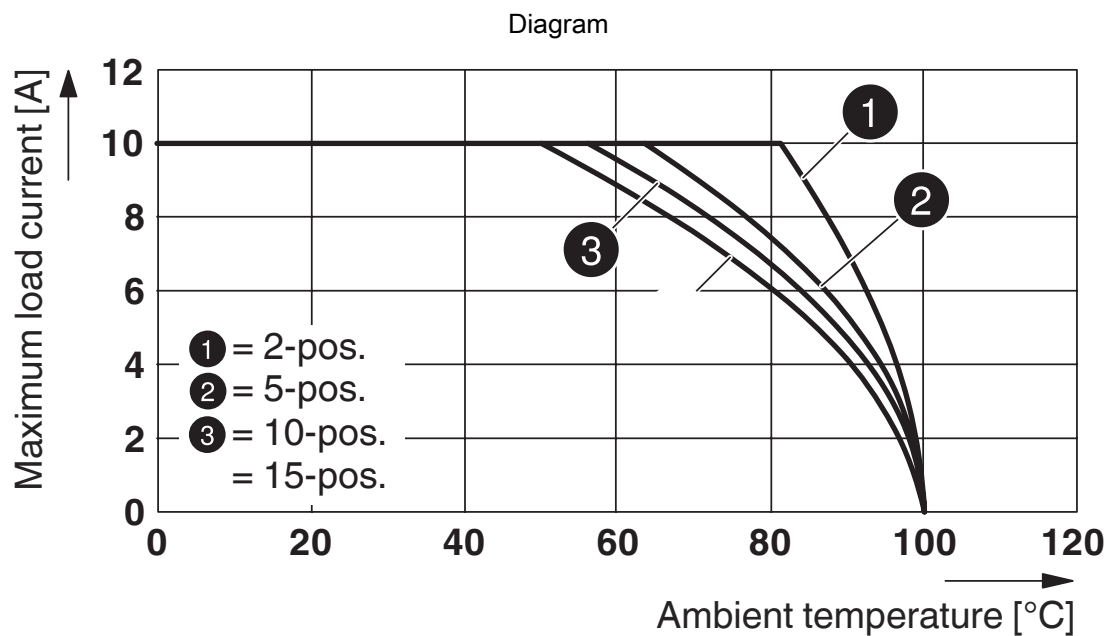
Drawings



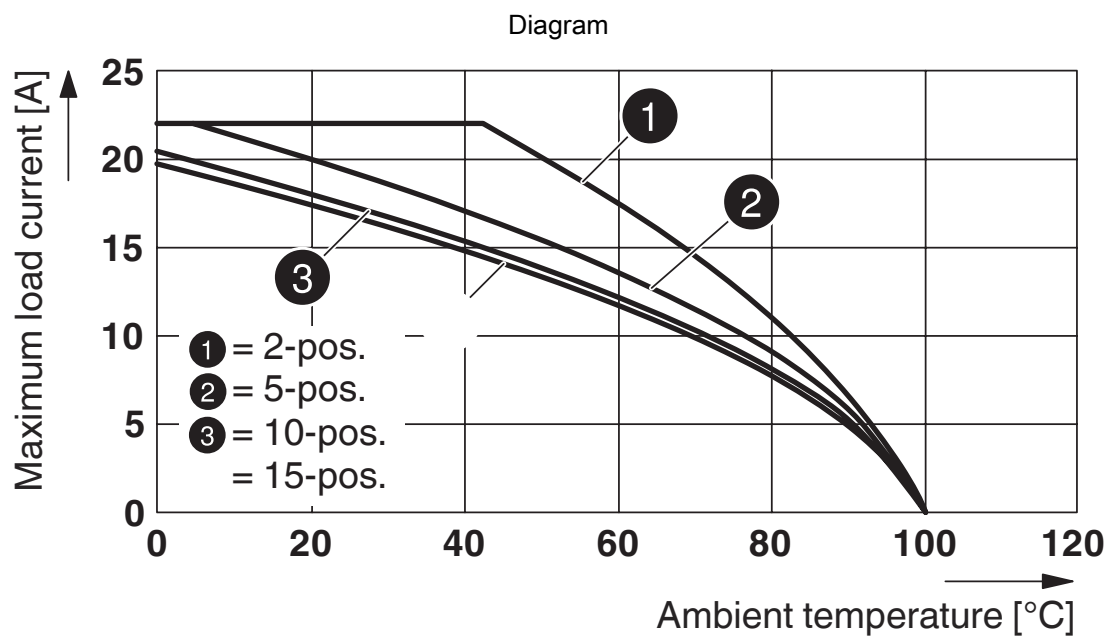
Derating curve for ST 2,5-QUATTRO/2P, ST 2,5-QUATTRO/4P and for all plug versions SP... .



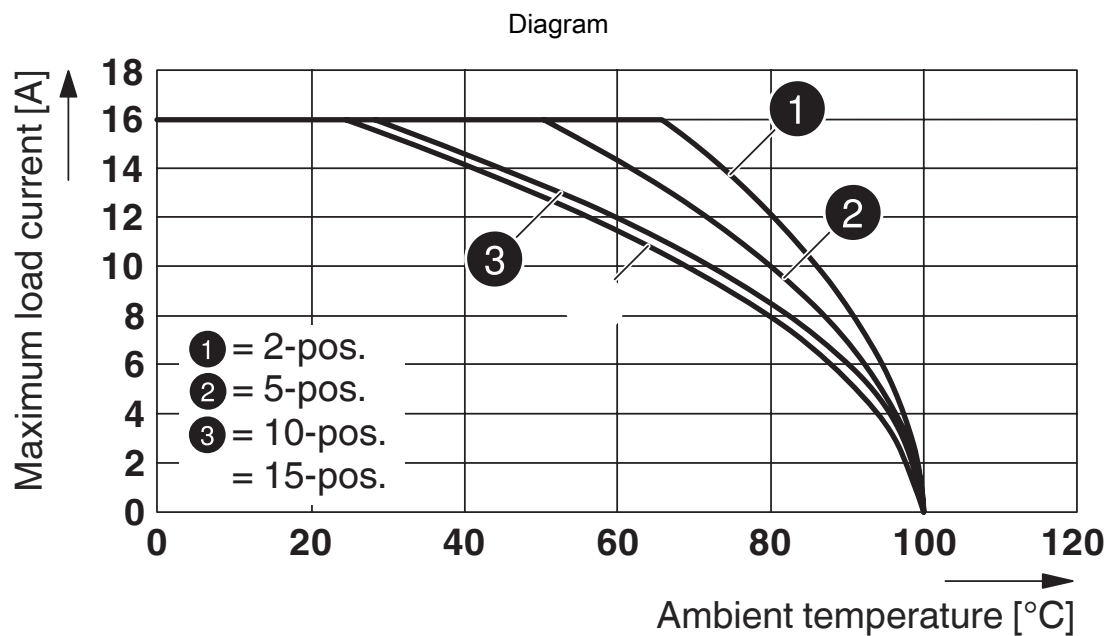
Derating curve for ST 2,5/ 1P, ST 2,5/ 2P, ST 2,5-TWIN/ 1P and for all plug versions SP... .



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



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



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

Circuit diagram



SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sk/products/3040504>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	20 A	28 - 12	-
Use group C				
	300 V	20 A	28 - 12	-
Use group D				
	600 V	5 A	28 - 12	-

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

 LR Approval ID: LR2042068TA				
---	--	--	--	--

 RS Approval ID: 22.44.01.00083.250				
--	--	--	--	--

 BV Approval ID: 27721/B0 BV				
---	--	--	--	--

 cULus Recognized Approval ID: E60425				
--	--	--	--	--

 cULus Recognized Approval ID: E60425				
--	--	--	--	--

DNV Approval ID: TAE00001CS				
---------------------------------------	--	--	--	--

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



Classifications

ECLASS

ECLASS-11.0	27141151
ECLASS-12.0	27141151
ECLASS-13.0	27250306

ETIM

ETIM 9.0	EC002021
----------	----------

UNSPSC

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

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



Environmental product compliance

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

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



Accessories

i Note: Applying some accessories below might limit this product.

FBS 2-5 - Plug-in bridge

3030161

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, length: 23 mm, color: red

i Max. current carrying capacity: 24 A

FBS 3-5 - Plug-in bridge

3030174

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, length: 23 mm, color: red

i Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 4-5 - Plug-in bridge

3030187

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, length: 23 mm, color: red

 Max. current carrying capacity: 24 A

FBS 5-5 - Plug-in bridge

3030190

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, length: 23 mm, color: red

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 10-5 - Plug-in bridge

3030213

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, length: 23 mm, color: red

 Max. current carrying capacity: 24 A

FBS 20-5 - Plug-in bridge

3030226

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 50-5 - Plug-in bridge

3038930

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: red

 Max. current carrying capacity: 24 A

FBS 2-5 BU - Plug-in bridge

3036877

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 3-5 BU - Plug-in bridge

3036880

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: blue

 Max. current carrying capacity: 24 A

FBS 4-5 BU - Plug-in bridge

3036893

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: blue

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 5-5 BU - Plug-in bridge

3036903

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: blue

 Max. current carrying capacity: 24 A

FBS 10-5 BU - Plug-in bridge

3036916

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: blue

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 20-5 BU - Plug-in bridge

3036929

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: blue

 Max. current carrying capacity: 24 A

FBS 50-5 BU - Plug-in bridge

3032114

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: blue

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 2-5 GY - Plug-in bridge

3038969

<https://www.phoenixcontact.com/sk/products/3038969>



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

 Max. current carrying capacity: 24 A

FBS 3-5 GY - Plug-in bridge

3038972

<https://www.phoenixcontact.com/sk/products/3038972>



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: gray

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 4-5 GY - Plug-in bridge

3038985

<https://www.phoenixcontact.com/sk/products/3038985>



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: gray

 Max. current carrying capacity: 24 A

FBS 5-5 GY - Plug-in bridge

3038998

<https://www.phoenixcontact.com/sk/products/3038998>



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: gray

 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 10-5 GY - Plug-in bridge

3039007

<https://www.phoenixcontact.com/sk/products/3039007>

Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: gray



 Max. current carrying capacity: 24 A

FBS 20-5 GY - Plug-in bridge

3038671

<https://www.phoenixcontact.com/sk/products/3038671>

Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: gray



 Max. current carrying capacity: 24 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBS 50-5 GY - Plug-in bridge

3032127

<https://www.phoenixcontact.com/sk/products/3032127>



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: gray

 Max. current carrying capacity: 24 A

FBSR 2-5 - Plug-in bridge

3033702

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: red

 Max. current carrying capacity: 17.5 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBSR 3-5 - Plug-in bridge

3001591

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: red

 Max. current carrying capacity: 17.5 A

FBSR 4-5 - Plug-in bridge

3001592

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: red

 Max. current carrying capacity: 17.5 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



FBSR 5-5 - Plug-in bridge

3001593

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: red

 Max. current carrying capacity: 17.5 A

FBSR 10-5 - Plug-in bridge

3033710

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



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: red

 Max. current carrying capacity: 17.5 A

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



PDZ/2 - Strain relief

3040562

<https://www.phoenixcontact.com/sk/products/3040562>

Strain relief, width: 9.6 mm, height: 28.9 mm, number of positions: 2, color: black



PDZ/4 - Strain relief

3040575

<https://www.phoenixcontact.com/sk/products/3040575>

Strain relief, width: 19.8 mm, height: 28.9 mm, number of positions: 4, color: black



SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



PR - Latching

3040559

<https://www.phoenixcontact.com/sk/products/3040559>



Latching, width: 4.4 mm, height: 29.8 mm, number of positions: 1, color: orange

PR/2 - Latching

3040630

<https://www.phoenixcontact.com/sk/products/3040630>



Latching, width: 10 mm, height: 29.8 mm, number of positions: 2, color: orange

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



PRT/2 - Latching

3040631

<https://www.phoenixcontact.com/sk/products/3040631>



Latching, can only be released using a screwdriver, width: 9 mm, height: 23.2 mm, number of positions: 2, color: orange

DFS-SPDB 2,5 - Flange cover

3061457

<https://www.phoenixcontact.com/sk/products/3061457>



Flange cover, width: 4.5 mm, height: 24.7 mm, color: gray

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/sk/products/1051993>



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

X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/sk/products/0811228>



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

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



ST-BW - Actuation tool

1207608

<https://www.phoenixcontact.com/sk/products/1207608>

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



LPO 2,5/E - Pick-up plug

3270516

<https://www.phoenixcontact.com/sk/products/3270516>

Pick-up plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: gray



SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



LPO 2,5 - Pick-up plug

3270517

<https://www.phoenixcontact.com/sk/products/3270517>



Pick-up plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: gray

LPS-5/E - Service connector

3270520

<https://www.phoenixcontact.com/sk/products/3270520>



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: red

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



LPS-5 - Service connector

3270521

<https://www.phoenixcontact.com/sk/products/3270521>



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: red

ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/sk/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



ZBF 5 CUS - Zack Marker strip, flat

0825025

<https://www.phoenixcontact.com/sk/products/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 size: 5.15 x 5.15 mm, Number of individual labels: 10

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

0808671

<https://www.phoenixcontact.com/sk/products/0808671>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



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

0808697

<https://www.phoenixcontact.com/sk/products/0808697>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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

0810821

<https://www.phoenixcontact.com/sk/products/0810821>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



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

0810863

<https://www.phoenixcontact.com/sk/products/0810863>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

UC-TMF 5 - Marker for terminal blocks

0818153

<https://www.phoenixcontact.com/sk/products/0818153>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

SPDB 2,5/11 - Plug

3040504

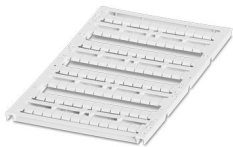
<https://www.phoenixcontact.com/sk/products/3040504>



UC-TMF 5 CUS - Marker for terminal blocks

0824638

<https://www.phoenixcontact.com/sk/products/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 size: 4.6 x 5.1 mm, Number of individual labels: 96

UCT-TMF 5 - Marker for terminal blocks

0828744

<https://www.phoenixcontact.com/sk/products/0828744>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



UCT-TMF 5 CUS - Marker for terminal blocks

0829658

<https://www.phoenixcontact.com/sk/products/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 size: 4.4 x 4.7 mm, Number of individual labels: 72

ISH 2,5/0,2 - Insulating sleeve

3002843

<https://www.phoenixcontact.com/sk/products/3002843>



Insulating sleeve, color: white

SPDB 2,5/11 - Plug

3040504

<https://www.phoenixcontact.com/sk/products/3040504>



ISH 2,5/0,5 - Insulating sleeve

3002856

<https://www.phoenixcontact.com/sk/products/3002856>



Insulating sleeve, color: gray

ISH 2,5/1,0 - Insulating sleeve

3002869

<https://www.phoenixcontact.com/sk/products/3002869>



Insulating sleeve, color: black

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT s.r.o.
Námestie Mateja Korvína 1
811 07 Bratislava
+421 2 3210 1470
obchod.sk@phoenixcontact.com