PHŒNIX CONTACT

Plug - SP 4/ 1-L BU - 3042764

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Plug, Connection method: Spring-cage connection, Number of positions: 1, Cross section: 0.08 mm² - 6 mm², AWG: 28 - 10, Width: 6.2 mm, Height: 41.5 mm, Color: blue

Illustration shows versions of the SP 4/1-... connector in various colors

Product Description

Connector element left, left housing without engagement pin, right opened without cover

Why buy this product

☑ Cable housing can be snapped on to the plugs, see figure below

☑ The plug with spring-cage connection is assembled directly on site by snapping together single-position plug elements

☑ The ST-COMBI plugs for self-assembly provide solutions that users can implement themselves

☑ Tested for railway applications

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	4 017918 956066
GTIN	4017918956066
Weight per Piece (excluding packing)	4.310 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General

Number of positions	1
Number of levels	1

Plug - SP 4/ 1-L BU - 3042764

Technical data

General

Number of connections	1
Nominal cross section	4 mm²
Color	blue
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Maximum load current	32 A (with 6 mm² conductor cross section)
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	32 A (with 6 mm² conductor cross section)
Nominal current I_N	32 A
Nominal voltage U_N	800 V
Open side panel	No

Dimensions

Width	6.2 mm
Length	21 mm
Height	41.5 mm
	24 mm
Pitch	6.2 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.	6 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.08 mm²
Conductor cross section flexible max.	4 mm²
Min. AWG conductor cross section, flexible	28
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²

Plug - SP 4/ 1-L BU - 3042764

Technical data

Connection data

Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm²
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A4

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 61984
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Drawings

Diagram

Derating curve for Spring-cage terminals and for P.. and Plug versions SP.. all plug versions SP 4/... . The derating curves are determined by multiplying the values

SP 4/1-L and SP 4/25 with...

Plug - SP 4/ 1-L BU - 3042764

of
the
base
curves
by
the
factor
0.8.

Circuit diagram

Schematic diagram

.../1-L

.../1-M

.../1-R
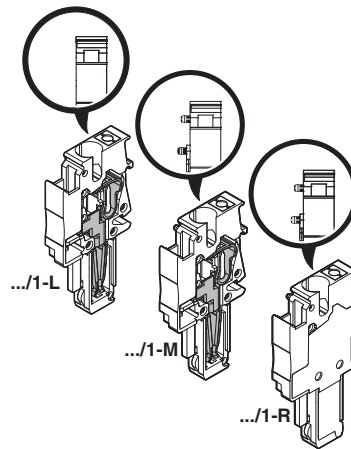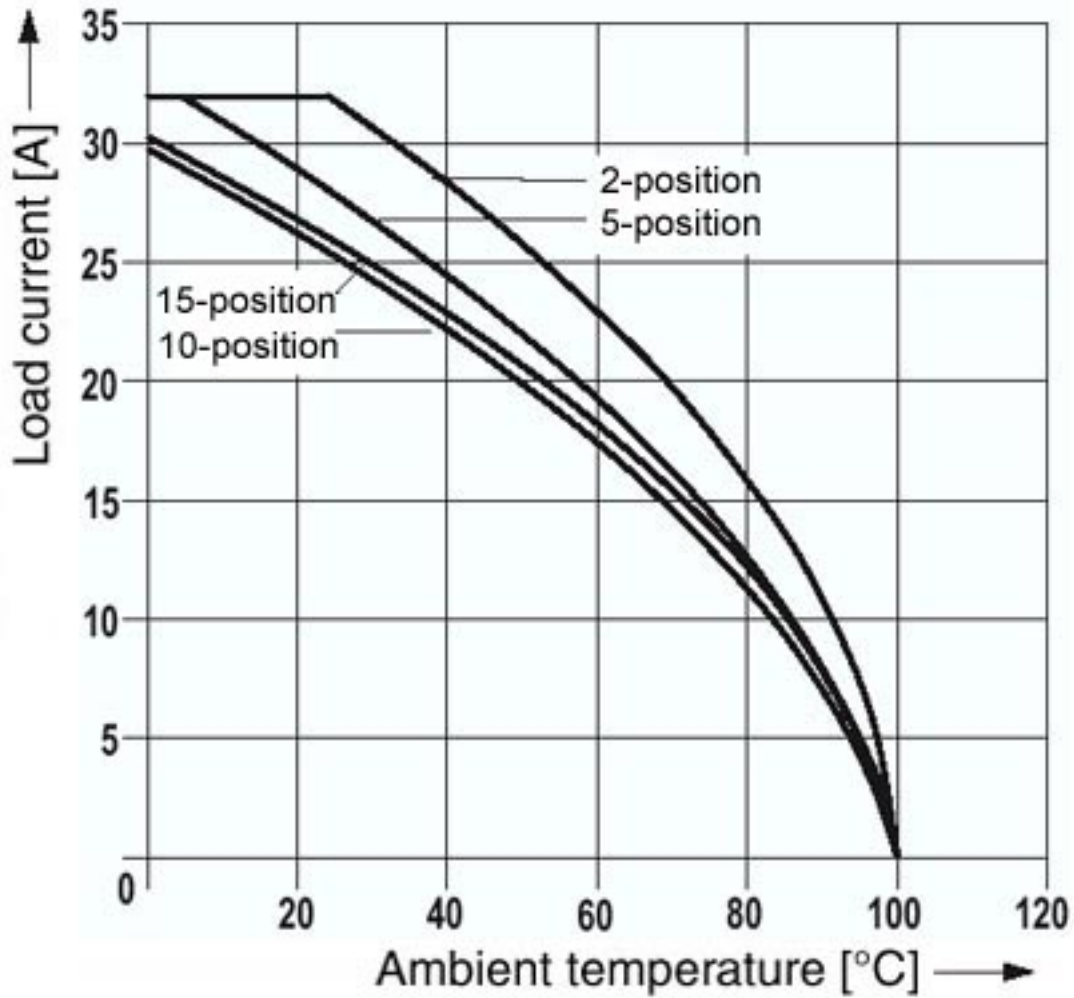
Plug - SP 4/ 1-L BU - 3042764

Diagram

Derating curve for the spring-cage terminal with all plug versions SP 4/... .

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

PHŒNIX CONTACT

Plug - SP 4/ 1-L BU - 3042764

Classifications

eCl@ss

eCl@ss 9.0	27141151

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC002021
ETIM 5.0	EC002021
ETIM 6.0	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 / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECEE CB Scheme / EAC / cULus Recognized

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services/testing-and-certification/certified-product-listing/	13631
	B	**C**	
mm²/AWG/kcmil	24-12	24-12	
Nominal current IN	30 A	30 A	
Nominal voltage UN	600 V	600 V	

Plug - SP 4/ 1-L BU - 3042764

Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 60425
		B		C
mm²/AWG/kcmil		28-10		28-10
Nominal current IN		30 A		30 A
Nominal voltage UN		600 V		600 V

VDE Gutachten mit Fertigungsüberwachung		http://www.vde.com/en/Institute/OnlineService/ VDE-approved-products/Pages/Online-Search.aspx	40019518
mm²/AWG/kcmil		0.2-6	
Nominal voltage UN		800 V	

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 60425
		B		C
mm²/AWG/kcmil		28-10		28-10
Nominal current IN		30 A		30 A
Nominal voltage UN		600 V		600 V

IECEE CB Scheme		http://www.iecee.org/	DE1-57873_B1
mm²/AWG/kcmil		0.2-6	
Nominal voltage UN		800 V	

EAC		7500651.22.01.00246

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Plug - SP 4/ 1-L BU - 3042764

Accessories

Accessories

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

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

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

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

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

PHŒNIX CONTACT

Plug - SP 4/ 1-L BU - 3042764

Accessories

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

---

Mounting material

Latching - PR - 3040559

Latching, Number of positions: 1, Color: orange

---

https://www.phoenixcontact.com/us/products/3042764

PHŒNIX CONTACT

Plug - SP 4/ 1-L BU - 3042764

Accessories

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

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

PHŒNIX CONTACT

Plug - SP 4/ 1-L BU - 3042764

Accessories

Shield connection clip - PSH 5-10 - 3040601

Shield connection clip, Color: black

Strain relief

Strain relief - PZ/2 - 3040627

Strain relief, Number of positions: 2, Color: black

Strain relief - PZ/4 - 3040643

Strain relief, Number of positions: 4, Color: black

Terminal marking

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

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

---

Plug - SP 4/ 1-L BU - 3042764

Accessories

Marker for terminal blocks - UC-TMF 5 - 0818153

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, 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 - 0828744

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, 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