

Plug - SP 2,5/ 1-M BU - 3043051

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Plug, Connection method: Spring-cage connection, Number of positions: 1, Cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, Width: 5.2 mm, Height: 39 mm, Color: blue

Illustration shows versions of the SP 2,5/1-... connector in various colors

Product Description

Connector element center, left housing with 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

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
Weight per Piece (excluding packing)	3.210 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General

Number of positions	1
Number of levels	1
Number of connections	1
Nominal cross section	2.5 mm ²
Color	blue
Insulating material	PA

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Technical data

General

Flammability rating according to UL 94	V0
Maximum load current	24 A (with a 2.5 mm ² conductor cross section)
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	24 A (with 4 mm ² conductor cross section)
Nominal current I _N	24 A
Nominal voltage U _N	500 V
Open side panel	No
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	32,3 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Dimensions

Width	5.2 mm
Length	15.8 mm
Height	39 mm
	24 mm
Pitch	5.2 mm

Connection data

Connection method	Spring-cage connection
Connection in acc. with standard	IEC 61984
Conductor cross section solid min.	0.08 mm ²

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Technical data

Connection data

Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.08 mm ²
Conductor cross section flexible max.	2.5 mm ²
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 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection method	Plug connection

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
ST
2,5/
TWIN-
ST/1P,
2,5/
2P-
SWIN-
TS/1P
MIN/
1P

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and
plug
versions
plug .
versions
SP... .

Diagram

Derating
curve
for
STTB
2,5/
RJ45/2P,
STTB
2,5/
RJ45/4P
and
for
plug
versions
versions
SP... .

Diagram

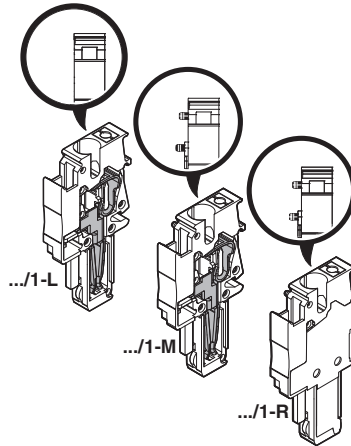
Derating
curve
for
ST
2,5-4L/1P,
ST
2,5-4L/2P
and
for
all
plug
versions
SP... .

Circuit diagram



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Schematic diagram



Approvals

Approvals

Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / RS / IECCE CB Scheme / CSA / EAC / DNV GL / cULus Recognized

Ex Approvals

Approval details


CSA http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ 13631		
	B	C
mm ² /AWG/kcmil	24-12	24-12
Nominal current I _N	20 A	20 A
Nominal voltage U _N	300 V	300 V

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425			
	B	C	D
mm ² /AWG/kcmil	28-12	28-12	28-12


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Approvals

	B	C	D
Nominal current I _N	20 A	20 A	5 A
Nominal voltage U _N	300 V	300 V	600 V

VDE Gutachten mit Fertigungsüberwachung  <http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx> 40019518

mm ² /AWG/kcmil	0.2-4
Nominal voltage U _N	500 V

cUL Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 60425


	B	C	D
mm ² /AWG/kcmil	28-12	28-12	28-12
Nominal current I _N	20 A	20 A	5 A
Nominal voltage U _N	300 V	300 V	600 V

LR <http://www.lr.org/en> 05/20042

GL <http://www.gl-group.com/newbuilding/approvals/index.html> 3305406 HH

BV <http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials> 27721/A0 BV


RS <http://www.rs-head.spb.ru/en/index.php> 11.04057.250

IECEE CB Scheme  <http://www.iecee.org/> DE1-52903

mm ² /AWG/kcmil	0.2-4
Nominal voltage U _N	500 V

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Approvals

CSA  http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ 13631			
	B	C	D
mm ² /AWG/kcmil	24-12	24-12	24-12
Nominal current I _N	20 A	20 A	5 A
Nominal voltage U _N	300 V	300 V	300 V

EAC 7500651.22.01.00246

DNV GL <https://www.dnvgl.com/> E-13345 (E-9232)

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