

## Plug - SP-H 2,5/ 5 - 3210651

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Plug, Connection method: Spring-cage connection, Plug connection, Number of positions: 5, Cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 28 - 12, Width: 26 mm, Height: 39 mm, Color: gray

The figure shows the 6-pos. version

### Why buy this product

- Large-surface labeling option
- Practical coding option
- Tested for railway applications

### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	 4 046356 411899
GTIN	4046356411899
Weight per Piece (excluding packing)	14.400 g
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### General

Number of positions	5
Number of levels	1
Number of connections	5
Potentials	1
Nominal cross section	2.5 mm <sup>2</sup>

# Plug - SP-H 2,5/ 5 - 3210651

## Technical data

### General

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 mm <sup>2</sup> 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 <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	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 %
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	26 mm
Length	15.8 mm
Height	39 mm
	24 mm
Pitch	5.2 mm

# Plug - SP-H 2,5/ 5 - 3210651

## Technical data

### Connection data

Connection method	Spring-cage connection
Connection in acc. with standard	IEC 61984
Conductor cross section solid min.	0.08 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	28
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.08 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm <sup>2</sup>
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

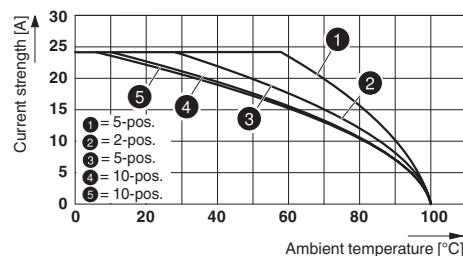
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

### Circuit diagram



### Diagram



# Plug - SP-H 2,5/ 5 - 3210651

## 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
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

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#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / VDE report with production monitoring / IECCEB Scheme / cULus Recognized

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#### Ex Approvals


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### Approval details


# Plug - SP-H 2,5/ 5 - 3210651


## Approvals


CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
	B	C	
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	
Nominal current I <sub>N</sub>	20 A	20 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
	B	C	
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	
Nominal current I <sub>N</sub>	20 A	20 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
	B	C	
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	
Nominal current I <sub>N</sub>	20 A	20 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

EAC		7500651.22.01.00246
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EAC		EAC-Zulassung
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VDE report with production monitoring		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40019518
mm <sup>2</sup> /AWG/kcmil	0.2-4		
Nominal voltage U <sub>N</sub>	500 V		

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## Approvals

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-57873_B1
mm <sup>2</sup> /AWG/kcmil		0.2-4	
Nominal voltage UN		500 V	

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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## Accessories

### Accessories

#### Cable housing

Cable housing - PH 2,5/ 5 - 3209727



Cable housing, Pitch: 26 mm, Length: 19.9 mm, Width: 26 mm, Height: 36.8 mm, Number of positions: 5, Color: gray

Cable housing - PH 2,5/ 6 - 3209730



Cable housing, Pitch: 31.2 mm, Length: 19.9 mm, Width: 31.2 mm, Height: 36.8 mm, Number of positions: 6, Color: gray

Cable housing - PH 2,5/ 7 - 3209743



Cable housing, Pitch: 36.4 mm, Length: 19.9 mm, Width: 36.4 mm, Height: 36.8 mm, Number of positions: 7, Color: gray

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### Accessories

Cable housing - PH 2,5/ 8 - 3209756



Cable housing, Pitch: 41.6 mm, Length: 19.9 mm, Width: 41.6 mm, Height: 36.8 mm, Number of positions: 8, Color: gray

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Cable housing - PH 2,5/ 9 - 3209507



Cable housing, Pitch: 46.8 mm, Length: 19.9 mm, Width: 46.8 mm, Height: 36.8 mm, Number of positions: 9, Color: gray

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Cable housing - PH 2,5/10 - 3209769



Cable housing, Pitch: 52 mm, Length: 19.9 mm, Width: 52 mm, Height: 36.8 mm, Number of positions: 10, Color: gray

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Cable housing - PH 2,5/11 - 3209772



Cable housing, Pitch: 57.2 mm, Length: 19.9 mm, Width: 57.2 mm, Height: 36.8 mm, Number of positions: 11, Color: gray

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Cable housing - PH 2,5/12 - 3209785



Cable housing, Pitch: 62.4 mm, Length: 19.9 mm, Width: 62.4 mm, Height: 36.8 mm, Number of positions: 12, Color: gray

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## Plug - SP-H 2,5/ 5 - 3210651

### Accessories

#### Cable housing - PH 2,5/13 - 3209798



Cable housing, Pitch: 67.6 mm, Length: 19.9 mm, Width: 67.6 mm, Height: 36.8 mm, Number of positions: 13, Color: gray

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#### Cable housing - PH 2,5/14 - 3209808



Cable housing, Pitch: 72.8 mm, Length: 19.9 mm, Width: 72.8 mm, Height: 36.8 mm, Number of positions: 14, Color: gray

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#### Cable housing - PH 2,5/15 - 3209811



Cable housing, Pitch: 78 mm, Length: 19.9 mm, Width: 78 mm, Height: 36.8 mm, Number of positions: 15, Color: gray

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### End cover

#### Flange cover - DF-SP-H 2,5 - 3209824



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

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### Flange

#### Flange cover - DFS-SP-H 2,5 - 3061431



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



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### Accessories

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#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

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Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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## Plug - SP-H 2,5/ 5 - 3210651

### Accessories

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

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Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

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



Insulating sleeve, Color: white

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



Insulating sleeve, Color: gray

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



Insulating sleeve, Color: black

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### Mounting material

## Plug - SP-H 2,5/ 5 - 3210651

### Accessories

Latching - PR - 3040559



Latching, Number of positions: 1, Color: orange

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Latching - PR/2 - 3040630



Latching, Number of positions: 2, Color: orange

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Latching - PRT/2 - 3040631



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

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Latching - PRZ - 3040614



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

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### Screwdriver tools

Screwdriver - ST-BW - 1207608



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

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## Plug - SP-H 2,5/ 5 - 3210651

### Accessories

#### Shield connection

Shield connection clip - PSH 3- 6 - 3040591



Shield connection clip, Color: black

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Shield connection clip - PSH 5-10 - 3040601



Shield connection clip, Color: black

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#### Strain relief

Strain relief - PZ/2 - 3040627



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

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Strain relief - PZ/4 - 3040643



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

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#### Test plug terminal block

## Plug - SP-H 2,5/ 5 - 3210651

### Accessories

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, Color: silver