

# Feed-through terminal block - STTB 2,5-TWIN - 3038516

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Feed-through terminal block, Cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 28 - 12, Connection type: Spring-cage connection, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

## Product Features

- Compact design for maximum space savings
- Tested for railway applications
- Low contact resistance
- Corrosion-free terminal points

## Key commercial data

package_quantity	50
GTIN	4017918908393

## Technical data

### General

Number of levels	2
Number of connections	6
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering

### General

Rated surge voltage	6 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	22 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed

# Feed-through terminal block - STTB 2,5-TWIN - 3038516

## Technical data

### General

Finger protection	guaranteed
Surge voltage test setpoint	7.3 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.08 mm <sup>2</sup> / 0.1 kg
Bending test conductor cross section/weight	2.5 mm <sup>2</sup> / 0.7 kg
Bending test conductor cross section/weight	4 mm <sup>2</sup> / 0.9 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm <sup>2</sup>
Tractive force setpoint	5 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	60 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm <sup>2</sup>
Short-time current	0.48 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test frequency	5 - 150 Hz
Acceleration	5 g (25 - 150 Hz)
Test duration per axis	2 h
Test directions	X-, Y- and Z-axis

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## Technical data

### General

Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	50 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	5.2 mm
Length	91.5 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

### Connection data

Conductor cross section solid min.	0.08 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.08 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, 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>
Connection method	Spring-cage connection
Stripping length	10 mm
Internal cylindrical gage	A3

## classifications

### eCl@ss

eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
eCl@ss 5.0	27141120

# Feed-through terminal block - STTB 2,5-TWIN - 3038516

## classifications

### eCl@ss

eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

### ETIM

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

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / RS / KR / NK / IECCE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / IECCE CB Scheme / GOST / GOST / cULus Recognized /

### Approval details

Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	20 A	20 A
mm <sup>2</sup> /AWG/kcmil	28-12	28-12

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	28-12	28-12	28-12

# Feed-through terminal block - STTB 2,5-TWIN - 3038516

approvals

**VDE Gutachten mit Fertigungsüberwachung**

Nominal voltage UN	500 V
Nominal current IN	24 A
mm <sup>2</sup> /AWG/kcmil	0.2-2.5

**cUL Recognized**

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	28-12	28-12	28-12

**LR**

**GL**

Nominal voltage UN	500 V
Nominal current IN	22 A
mm <sup>2</sup> /AWG/kcmil	2.5

**BV**

**RS**

**KR**

**NK**

**IECEE CB Scheme**

Nominal voltage UN	500 V
Nominal current IN	24 A
mm <sup>2</sup> /AWG/kcmil	0.2-2.5

# Feed-through terminal block - STTB 2,5-TWIN - 3038516

## approvals

Nominal voltage UN	500 V
Nominal current IN	24 A
mm <sup>2</sup> /AWG/kcmil	0.2-2.5

Nominal voltage UN	500 V
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	2.5

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## accessories

### End cover

D-STTB 2,5-TWIN - 3038558



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

### accessories

DP PS-5 - 3036725



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### Partition plate

ATP-STTB 4 - 3030747



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### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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### Marker carriers

STP 5-2 - 0800967



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### Labeled terminal marker

WST 2,5 - 3030941



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

### accessories

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ZBF 5 CUS - 0825025



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UC-TMF 5 CUS - 0824638



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UCT-TMF 5 CUS - 0829658



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### Marker pen

B-STIFT - 1051993



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X-PEN 0,35 - 0811228



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### Documentation



# Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

ST-IL - 3039900



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## Bridge

FBS 20-5 - 3030226



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FBS 10-5 - 3030213



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FBS 5-5 - 3030190



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FBS 4-5 - 3030187



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

FBS 3-5 - 3030174



FBS 2-5 - 3030161



FBS 50-5 - 3038930



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

### accessories

NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



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accessories

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NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

### accessories

NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



# Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

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## Terminal marking

ZBF 5:UNBEDRUCKT - 0808642



UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



## Insulating sleeve

ISH 2,5/0,2 - 3002843



ISH 2,5/0,5 - 3002856



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

ISH 2,5/1,0 - 3002869



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### Test plug terminal block

PAI-4-FIX-5/6 BU - 3035975



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PAI-4-FIX-5/6 OG - 3035974



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PAI-4-FIX-5/6 YE - 3035977



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PAI-4-FIX-5/6 RD - 3035976



## Feed-through terminal block - STTB 2,5-TWIN - 3038516

### accessories

PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



PAI-4-FIX-5/6 GY - 3035982



PAI-4-FIX-5/6 VT - 3035979



PAI-4-FIX-5/6 BN - 3035981



PS-5 - 3030983





## Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

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PS-5/2,3MM RD - 3038723



### End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442



# Feed-through terminal block - STTB 2,5-TWIN - 3038516

accessories

E/UK 1 - 1201413



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## Drawings

Circuit diagram



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