

# Micro terminal - MT 1,5-TWIN

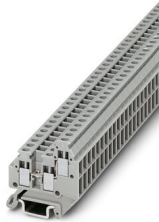
3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



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Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, connection method: Screw connection, 1 level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 15, color: gray

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## Your advantages

- Design width of just 4.2 mm
- Nominal cross section of 1.5 mm<sup>2</sup>
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Clear arrangement thanks to marking of all terminal points
- Easy potential distribution thanks to standardized screw bridges in the terminal center
- Snap-on foot for NS 15 DIN rails

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<https://www.phoenixcontact.com/de/produkte/3001682>



## Commercial Data

Item number	3001682
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	A1 - Reihenklennen
Product Key	BE1261
Catalog Page	Page 554 (C-1-2019)
GTIN	4017918100858
Weight per Piece (including packing)	3,454 g
Weight per Piece (excluding packing)	3,064 g
Customs tariff number	85369010
Country of origin	TR

# Micro terminal - MT 1,5-TWIN



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## Technical Data

### Product properties

Product type	Micro terminal block
Number of connections	3
Number of rows	2
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.56 W

### Connection data

Number of connections per level	3
Nominal cross section	1.5 mm <sup>2</sup>

#### 1 level

Screw thread	M2
Tightening torque	0.22 ... 0.25 Nm
Stripping length	6 mm
Internal cylindrical gage	A1
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	26 ... 16
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 16
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
2 conductors with same cross section, solid	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
Nominal current	17.5 A
Maximum load current	17.5 A (in case of a 1.5 mm <sup>2</sup> conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	400 V
Nominal cross section	1.5 mm <sup>2</sup>

### Dimensions

Width	4.2 mm
End cover width	1 mm

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Height NS 15	24.4 mm
Height	1.181 "
Length	27.8 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

## Electrical tests

### Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq$ 45 K
Result	Test passed
Short-time withstand current 1.5 mm <sup>2</sup>	0.18 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

Result	Test passed
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## Attachment on the carrier

DIN rail/fixing support	NS 15
Test force setpoint	1 N
Result	Test passed

## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm <sup>2</sup> / 0.2 kg
	0.5 mm <sup>2</sup> / 0.3 kg
	1.5 mm <sup>2</sup> / 0.4 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### 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 60947-7-1
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## Mounting

Mounting type	NS 15
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## Drawings

### Circuit diagram



# Micro terminal - MT 1,5-TWIN



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## Approvals

<b>DNV</b> Approval ID: TAE00001CT				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	-

<b>CSA</b> Approval ID: 13631				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
	300 V	15 A	28 - 14	-

<b>EAC</b> Approval ID: RU C-DE.BL08.B.00534				
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<b>cULus Recognized</b> Approval ID: E60425				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Use group B	300 V	15 A	30 - 14	-
Use group F	400 V	15 A	30 - 14	-
Use group D	300 V	10 A	30 - 14	-

<b>CCA</b> Approval ID: NTR-NL 4238				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
	400 V		-	- 1.5

<b>LR</b> Approval ID: LR2041789TA				
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<b>BV</b> Approval ID: 07774/E0 BV				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	-

# Micro terminal - MT 1,5-TWIN



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## Classifications

### ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

### ETIM

ETIM 8.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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# Micro terminal - MT 1,5-TWIN

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## Environmental Product Compliance

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

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## Accessories

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

### Fixed bridge

Fixed bridge - FBRN 2-4 N - 3001543

<https://www.phoenixcontact.com/de/produkte/3001543>



Fixed bridge, color: silver

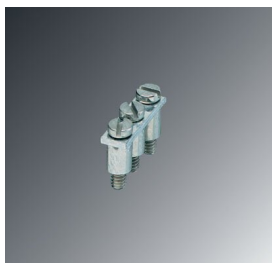
**i** Max. current carrying capacity: 12 A

Fingers are protected from contact

### Fixed bridge

Fixed bridge - FBRN 3-4 N - 3001556

<https://www.phoenixcontact.com/de/produkte/3001556>



Fixed bridge, color: silver

**i** Max. current carrying capacity: 12 A

Fingers are protected from contact

# Micro terminal - MT 1,5-TWIN

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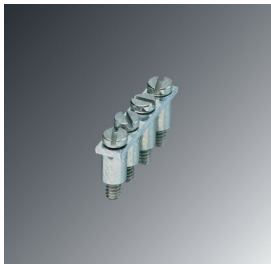
<https://www.phoenixcontact.com/de/produkte/3001682>




## Fixed bridge

Fixed bridge - FBRN 4-4 N - 3001569

<https://www.phoenixcontact.com/de/produkte/3001569>



Fixed bridge, pitch: 4 mm, color: silver

 Max. current carrying capacity: 12 A

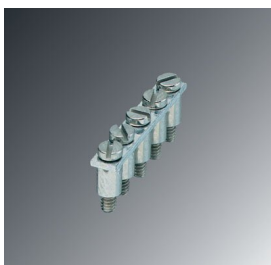
Fingers are protected from contact

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## Fixed bridge

Fixed bridge - FBRN 5-4 N - 3001572

<https://www.phoenixcontact.com/de/produkte/3001572>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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# Micro terminal - MT 1,5-TWIN

3001682

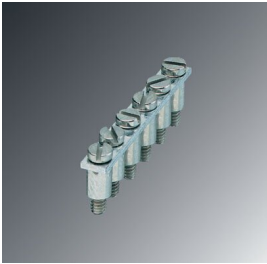
<https://www.phoenixcontact.com/de/produkte/3001682>




## Fixed bridge

Fixed bridge - FBRN 6-4 N - 3001585

<https://www.phoenixcontact.com/de/produkte/3001585>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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## Fixed bridge

Fixed bridge - FBRN 7-4 N - 3001598

<https://www.phoenixcontact.com/de/produkte/3001598>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>

## Fixed bridge

Fixed bridge - FBRN 8-4 N - 3001608

<https://www.phoenixcontact.com/de/produkte/3001608>



Fixed bridge, pitch: 4 mm, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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## Fixed bridge

Fixed bridge - FBRN 10-4 N - 3001624

<https://www.phoenixcontact.com/de/produkte/3001624>



Fixed bridge, pitch: 4.2 mm, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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# Micro terminal - MT 1,5-TWIN

3001682

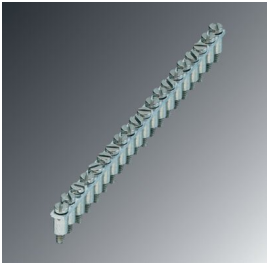
<https://www.phoenixcontact.com/de/produkte/3001682>



## Fixed bridge

Fixed bridge - FBRN 20-4 N - 3001637

<https://www.phoenixcontact.com/de/produkte/3001637>



Fixed bridge, color: silver

 Max. current carrying capacity: 12 A

Fingers are protected from contact

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## End cover

End cover - D-MT 1,5-TWIN - 3002979

<https://www.phoenixcontact.com/de/produkte/3002979>



End cover, length: 27.8 mm, width: 1 mm, height: 24.3 mm, color: gray

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## DIN rail, unperforated

DIN rail, unperforated - NS 15 UNPERF 2000MM VPE 10 - 1401695

<https://www.phoenixcontact.com/de/produkte/1401695>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

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## Screwdriver

Screwdriver - SZS 0,4X2,5 VDE - 1205037

<https://www.phoenixcontact.com/de/produkte/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## DIN rail perforated

DIN rail perforated - NS 15 PERF 2000MM VPE 10 - 1401682

<https://www.phoenixcontact.com/de/produkte/1401682>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 10 (20 m)

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## DIN rail perforated

DIN rail perforated - NS 15 AL PERF 2000MM VPE 10 - 1401763

<https://www.phoenixcontact.com/de/produkte/1401763>



DIN rail perforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 10 (20 m)



# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## DIN rail perforated

DIN rail perforated - NS 15 WH PERF 2000MM-VPE 10 - 1204096

<https://www.phoenixcontact.com/de/produkte/1204096>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4:UNBEDRUCKT - 0808587

<https://www.phoenixcontact.com/de/produkte/0808587>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

# Micro terminal - MT 1,5-TWIN

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<https://www.phoenixcontact.com/de/produkte/3001682>



## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4 CUS - 0825023

<https://www.phoenixcontact.com/de/produkte/0825023>



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: 4.2 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:FORTL.ZAHLEN - 0808626

<https://www.phoenixcontact.com/de/produkte/0808626>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

# Micro terminal - MT 1,5-TWIN

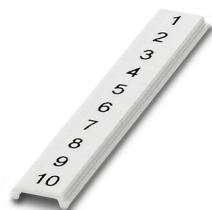
3001682

<https://www.phoenixcontact.com/de/produkte/3001682>

## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,QR:FORTL.ZAHLEN - 0808820

<https://www.phoenixcontact.com/de/produkte/0808820>



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: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:GERADE ZAHLEN - 0810818

<https://www.phoenixcontact.com/de/produkte/0810818>



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: 4 mm, lettering field size: 5.15 x 4.15 mm, Number of individual labels: 10

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 4,LGS:UNGERADE ZAHLEN - 0810850

<https://www.phoenixcontact.com/de/produkte/0810850>



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: 4 mm, lettering field size: 5.15 x 4.15 mm, Number of individual labels: 10

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## Marker for terminal blocks

Marker for terminal blocks - UC-TMF 4 - 0818166

<https://www.phoenixcontact.com/de/produkte/0818166>



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: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## Marker for terminal blocks

Marker for terminal blocks - UC-TMF 4 CUS - 0824630

<https://www.phoenixcontact.com/de/produkte/0824630>



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: 4.2 mm, lettering field size: 3.6 x 5.1 mm, Number of individual labels: 120

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## Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 4 - 0828742

<https://www.phoenixcontact.com/de/produkte/0828742>



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: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 4 CUS - 0829651

<https://www.phoenixcontact.com/de/produkte/0829651>



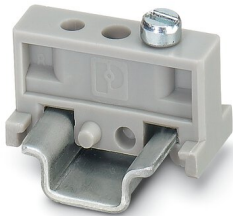
Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 4.2 mm, lettering field size: 3.4 x 4.7 mm, Number of individual labels: 90

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## End clamp

End clamp - E/MBK - 1401637

<https://www.phoenixcontact.com/de/produkte/1401637>



End clamp, width: 6.2 mm, color: gray

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## End clamp

End clamp - E/MK - 1421633

<https://www.phoenixcontact.com/de/produkte/1421633>



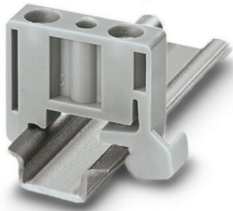
End clamp, width: 6.2 mm, color: gray

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## End clamp

End clamp - E/MK 1 - 1421659

<https://www.phoenixcontact.com/de/produkte/1421659>



End clamp width: 6 mm, color: gray

# Micro terminal - MT 1,5-TWIN

3001682

<https://www.phoenixcontact.com/de/produkte/3001682>



## Test adapter

Test adapter - PAI-4 - 3030925

<https://www.phoenixcontact.com/de/produkte/3030925>



Test adapter, Touch proof against unintentional direct contact according to DIN EN 50274 when plugged in, for 4 mm test plug and terminal blocks with 4.2 mm pitch, color: gray

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