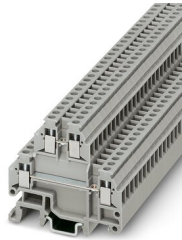


MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>

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Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 15, NS 35/7,5, NS 35/15, color: gray

Your advantages

- Nominal cross section of 1.5 mm²
- Snap-on foot for NS 15 and NS 35 DIN rails
- Design width of just 4.2 mm
- Clear arrangement thanks to marking of all terminal points
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Wide range of labeling options
- Bridging option on both levels

Commercial Data

Item number	1414129
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE1
Product Key	BE1264
Catalog Page	Page 555 (C-1-2019)
GTIN	4017918105419
Weight per Piece (including packing)	5.579 g
Weight per Piece (excluding packing)	5.57 g
Customs tariff number	85369010
Country of origin	TR

MTTB 1,5 - Micro terminal

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Technical Data

Product properties

Product type	Micro terminal block
Number of connections	4
Number of rows	2
Potentials	2

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	2
Nominal cross section	1.5 mm ²

1st and 2nd level

Screw thread	M2
Tightening torque	0.22 ... 0.25 Nm
Stripping length	6 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 0.75 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 0.75 mm ²
2 conductors with same cross section, solid	0.14 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible	0.14 mm ² ... 0.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm ² conductor cross section)
Nominal voltage	400 V
Nominal cross section	1.5 mm ²

Dimensions

Width	4.2 mm
End cover width	1 mm
Height NS 15	41 mm

MTTB 1,5 - Micro terminal



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<https://www.phoenixcontact.com/in/products/1414129>

Height NS 35/15	48.5 mm
Height NS 35/7,5	41 mm
Height	1.614 "
Length	44 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 ²	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

MTTB 1,5 - Micro terminal



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Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 35/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 ² / 0.2 kg
	1.5 mm ² / 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
	NS 35/7,5
	NS 35/15

MTTB 1,5 - Micro terminal

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Drawings

Circuit diagram



MTTB 1,5 - Micro terminal





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Approvals

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

 EAC Approval ID: RU C-DE.BL08.B.00534				
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 cULus Recognized Approval ID: E60425				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	300 V	15 A	30 - 14	-
	400 V	15 A	30 - 14	-
	300 V	10 A	30 - 14	-

 LR Approval ID: LR2041789TA-02				
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 BV Approval ID: 07774/E0 BV				
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MTTB 1,5 - Micro terminal

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Classifications

ECLASS

ECLASS-11.0

27141120

ETIM

ETIM 8.0

EC000897

UNSPSC

UNSPSC 21.0

39121400

MTTB 1,5 - Micro terminal

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Environmental Product Compliance

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

MTTB 1,5 - Micro terminal

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Accessories

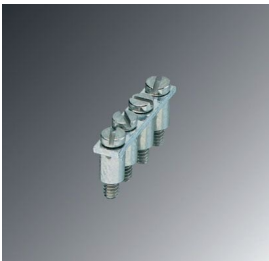


Note: Applying some accessories below might limit this product.

FBRN 4-4 N - Fixed bridge

3001569

<https://www.phoenixcontact.com/in/products/3001569>

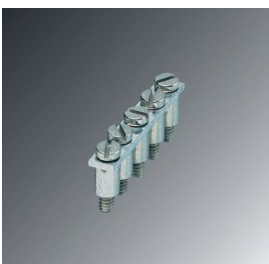


Fixed bridge, pitch: 4 mm, number of positions: 4, color: silver

FBRN 5-4 N - Fixed bridge

3001572

<https://www.phoenixcontact.com/in/products/3001572>



Fixed bridge, number of positions: 5, color: silver

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



FBRN 6-4 N - Fixed bridge

3001585

<https://www.phoenixcontact.com/in/products/3001585>

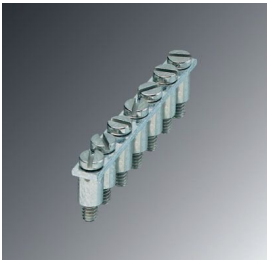


Fixed bridge, number of positions: 6, color: silver

FBRN 7-4 N - Fixed bridge

3001598

<https://www.phoenixcontact.com/in/products/3001598>



Fixed bridge, number of positions: 7, color: silver

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>

FBRN 8-4 N - Fixed bridge

3001608

<https://www.phoenixcontact.com/in/products/3001608>



Fixed bridge, pitch: 4 mm, number of positions: 8, color: silver

FBRN 10-4 N - Fixed bridge

3001624

<https://www.phoenixcontact.com/in/products/3001624>



Fixed bridge, pitch: 4.2 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 12 A

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



FBRN 20-4 N - Fixed bridge

3001637

<https://www.phoenixcontact.com/in/products/3001637>



Fixed bridge, number of positions: 20, color: silver

DP-MTTB 1,5 - Spacer plate

3002681

<https://www.phoenixcontact.com/in/products/3002681>



Spacer plate, length: 44 mm, width: 2 mm, color: gray

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



DG-MTTB 1,5 - Spacer plate

3002678

<https://www.phoenixcontact.com/in/products/3002678>



Spacer plate, length: 44 mm, width: 2 mm, color: gray

D-MTTB 1,5 - End cover

3002665

<https://www.phoenixcontact.com/in/products/3002665>



End cover, length: 44.2 mm, width: 4 mm, height: 34.6 mm, color: gray

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/in/products/1205037>



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

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

1401695

<https://www.phoenixcontact.com/in/products/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)

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



NS 15 PERF 2000MM VPE 10 - DIN rail perforated

1401682

<https://www.phoenixcontact.com/in/products/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)

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

1401763

<https://www.phoenixcontact.com/in/products/1401763>



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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



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

1204096

<https://www.phoenixcontact.com/in/products/1204096>



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

NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/in/products/0801733>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

<https://www.phoenixcontact.com/in/products/0801681>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

<https://www.phoenixcontact.com/in/products/1204119>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/in/products/1204122>



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

NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

<https://www.phoenixcontact.com/in/products/0801704>



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

<https://www.phoenixcontact.com/in/products/1206421>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

<https://www.phoenixcontact.com/in/products/1206434>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/in/products/0801762>



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/in/products/1206560>

DIN rail end piece, for DIN rail NS 35/7.5



MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



ZBF 4:UNBEDRUCKT - Zack Marker strip, flat

0808587

<https://www.phoenixcontact.com/in/products/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

ZBF 4 CUS - Zack Marker strip, flat

0825023

<https://www.phoenixcontact.com/in/products/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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



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

0808626

<https://www.phoenixcontact.com/in/products/0808626>

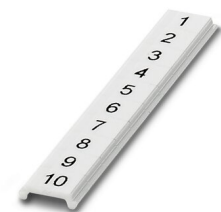


Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 4.2 x 5.2 mm, Number of individual labels: 10

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

0808820

<https://www.phoenixcontact.com/in/products/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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



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

0810818

<https://www.phoenixcontact.com/in/products/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

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

0810850

<https://www.phoenixcontact.com/in/products/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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



UC-TMF 4 - Marker for terminal blocks

0818166

<https://www.phoenixcontact.com/in/products/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

UC-TMF 4 CUS - Marker for terminal blocks

0824630

<https://www.phoenixcontact.com/in/products/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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



UCT-TMF 4 - Marker for terminal blocks

0828742

<https://www.phoenixcontact.com/in/products/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

UCT-TMF 4 CUS - Marker for terminal blocks

0829651

<https://www.phoenixcontact.com/in/products/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

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



CLIPFIX 35 - End clamp

3022218

<https://www.phoenixcontact.com/in/products/3022218>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

CLIPFIX 35-5 - End clamp

3022276

<https://www.phoenixcontact.com/in/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>

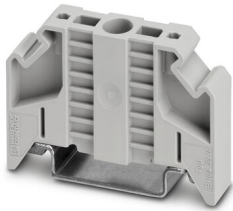


E/NS 35 N - End clamp

0800886

<https://www.phoenixcontact.com/in/products/0800886>

End clamp, width: 9.5 mm, color: gray

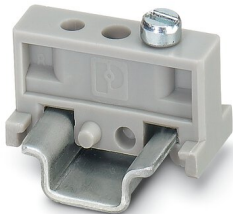


E/MBK - End clamp

1401637

<https://www.phoenixcontact.com/in/products/1401637>

End clamp, width: 6.2 mm, color: gray



MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



E/MK - End clamp

1421633

<https://www.phoenixcontact.com/in/products/1421633>

End clamp, width: 6.2 mm, color: gray

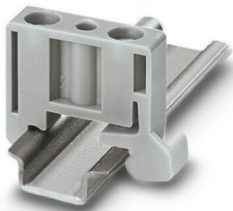


E/MK 1 - End clamp

1421659

<https://www.phoenixcontact.com/in/products/1421659>

End clamp width: 6 mm, color: gray



MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>

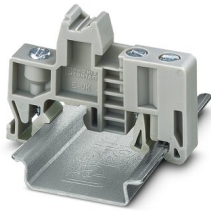


E/UK - End clamp

1201442

<https://www.phoenixcontact.com/in/products/1201442>

End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35



E/UK 1 - End clamp

1201413

<https://www.phoenixcontact.com/in/products/1201413>

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray



MTTB 1,5 - Micro terminal

1414129

<https://www.phoenixcontact.com/in/products/1414129>



PAI-4 - Test adapter

3030925

<https://www.phoenixcontact.com/in/products/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, number of positions: 1, fuse type: , mounting type: , , color: gray

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in