# PCB Terminal Strips with Push-Buttons 2.5 mm²

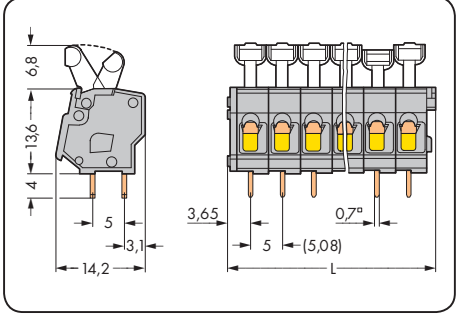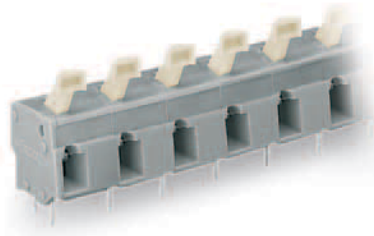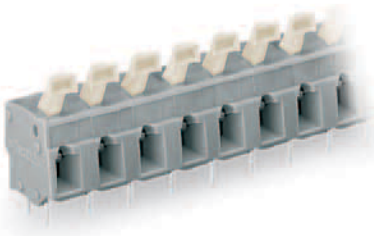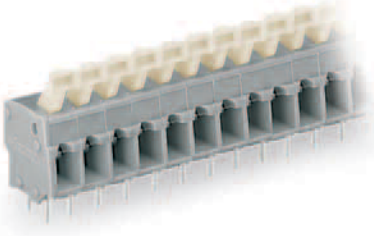| Pin spacing 5/5.08 mm / 0.2 in | | Pin spacing 7.5/7.62 mm / 0.3 in | | Pin spacing 10/10.16 mm / 0.4 in | |
|---|---|---|---|---|---|
| 0.08 – 2.5 mm² | AWG 28 – 12 | 0.08 – 2.5 mm² | AWG 28 – 12 | 0.08 – 2.5 mm² | AWG 28 – 12 |
| 320 V/4 kV/2  24 A | 300 V/10 A | 630 V/6 kV/2  24 A | 300 V/10 A | 1000 V/8 kV/2  24 A | 300 V/10 A |
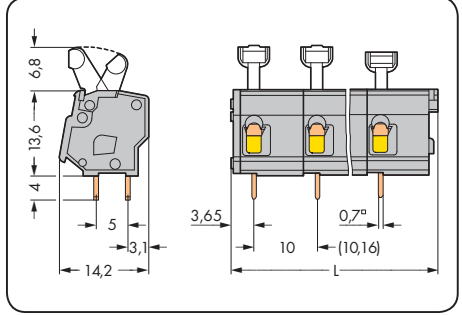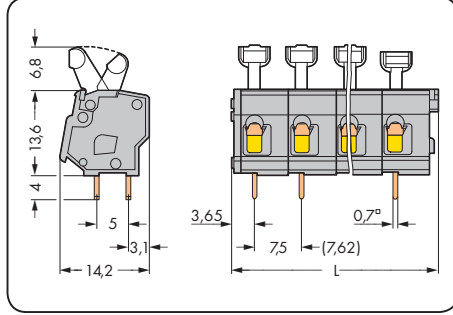






L = (pole no. x pin spacing) + 2.9 mm  Dimensions for angled push-buttons, see page 103

| Pole No. | Item No. | Item No. | Pack. Unit | Pole No. | Item No. | Item No. | Pack. Unit | Pole No. | Item No. | Item No. | Pack. Unit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Terminal strip with push-buttons, 2 solder pins/pole, gray** | | | | **Terminal strip with push-buttons, 2 solder pins/pole, gray** | | | | **Terminal strip with push-buttons, 2 solder pins/pole, gray** | | | |
| | Angled push-button | Straight push-button | | | Angled push-button | Straight push-button | | | Angled push-button | Straight push-button | |
| 2 | **257-452** | **257-402** | 400 (4 x 100) | 2 | **257-552** | **257-502** | 280 (4 x  70) | 2 | **257-652** | **257-602** | 200 (4 x  50) |
| 3 | **257-453** | **257-403** | 280 (4 x  70) | 3 | **257-553** | **257-503** | 200 (4 x  50) | 3 | **257-653** | **257-603** | 140 (4 x  35) |
| 4 | **257-454** | **257-404** | 220 (4 x  55) | 4 | **257-554** | **257-504** | 140 (4 x  35) | 4 | **257-654** | **257-604** | 100 (4 x  25) |
| 5 | **257-455** | **257-405** | 180 (4 x  45) | 5 | **257-555** | **257-505** | 120 (4 x  30) | 5 | **257-655** | **257-605** | 80 (4 x  20) |
| 6 | **257-456** | **257-406** | 140 (4 x  35) | 6 | **257-556** | **257-506** | 100 (4 x  25) | 6 | **257-656** | **257-606** | 80 (4 x  20) |
| 7 | **257-457** | **257-407** | 120 (4 x  30) | 7 | **257-557** | **257-507** | 80 (4 x  20) | 7 | **257-657** | **257-607** | 60 (4 x  15) |
| 8 | **257-458** | **257-408** | 100 (4 x  25) | 8 | **257-558** | **257-508** | 80 (4 x  20) | 8 | **257-658** | **257-608** | 60 (4 x  15) |
| 9 | **257-459** | **257-409** | 100 (4 x  25) | 9 | **257-559** | **257-509** | 60 (4 x  15) | 9 | **257-659** | **257-609** | 40 (4 x  10) |
| 10 | **257-460** | **257-410** | 80 (4 x  20) | 10 | **257-560** | **257-510** | 60 (4 x  15) | 10 | **257-660** | **257-610** | 40 (4 x  10) |
| 12 | **257-462** | **257-412** | 80 (4 x  20) | 12 | **257-562** | **257-512** | 40 (4 x  10) | 12 | **257-662** | **257-612** | 40 (4 x  10) |
| 16 | **257-466** | **257-416** | 60 (4 x  15) | 16 | **257-566** | **257-516** | 40 (4 x  10) | 16 | **257-666** | **257-616** | 20 (4 x  5) |
| 24 | **257-474** | **257-424** | 40 (4 x  10) | 24 | **257-574** | **257-524** | 20 (4 x  5) | 24 | **257-674** | **257-624** | 20 (4 x  5) |
| 36 | **257-486** | **257-436** | 20 (4 x  5) | | | | | | | | |
| 48 | **257-498** | **257-448** | 20 (4 x  5) | | | | | | | | |

**Item no. suffixes for Ex e II and Ex i applications:**

| | | | Ordering example: |
|---|---|---|---|
| ⚪ Ex e IIEx e II | . . . - . . . /000-009/999-950 | | Terminal strip, 10/10.16 mm pin spacing, |
| 🔵 Ex i | . . . - . . . /000-006 (only for 10/10.16 mm pin spacing) | | 10-pole, Ex e II: **257-660/000-009/999-950** |

**Item no. suffixes for colored terminal strips: (Production and prices depend on quantity required)**

| 🔴 red | . . . - . . . /000-005 | **Ordering example:** |
|---|---|---|
| 🔵 blue | . . . - . . . /000-006 | Terminal strip, 5/5.08 mm pin spacing |
| ⚫ dark gray | . . . - . . . /000-008 | 8-pole, orange: **257-408/000-012** |
| ⚪ light gray | . . . - . . . /000-009 | |
| 🟠 orange | . . . - . . . /000-012 | |
| 🟢 light green | . . . - . . . /000-017 | |
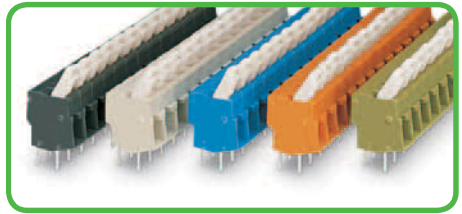


Please contact factory for other lengths, colors, mixed-color terminal strips, or direct marking.

# Modular PCB Terminal Blocks and Strips with Push-Buttons 2.5 mm²
## Pin Spacing 5/5.08 mm, 7.5/7.62 mm, 10/10.16 mm
## 257 Series
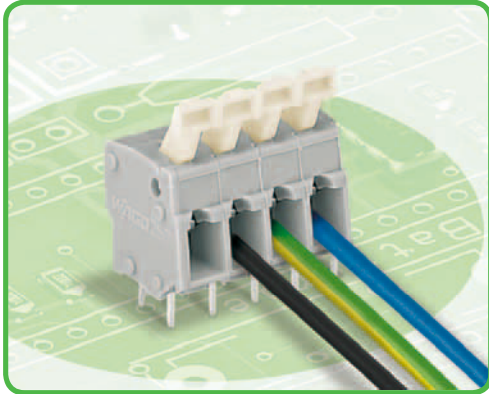
- Modular terminal blocks and terminal strips with push-button actuated CAGE CLAMP®

- ⟨Ex⟩ versions with Ex e (increased safety) approval

- Set to metric or inch pin spacing by compressing terminal strips together or pulling them apart

- Ideal for in-the-field wiring thanks to simplified push-button actuation

- Convenient, tool-free operation

- Versions with angled push-buttons for simple top-of-unit actuation

**Technical data:**

| Pin Spacing | 5/5.08 mm 0.2 in | | | 7.5/7.62 mm 0.3 in | | | 10/10.16 mm 0.4 in | | |
|---|---|---|---|---|---|---|---|---|---|
| Rating per | IEC/EN 60664-1 | | | IEC/EN 60664-1 | | | IEC/EN 60664-1 | | |
| Overvoltage category | III | III | II | III | III | II | III | III | II |
| Pollution degree | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 |
| Rated voltage | 250 V | 320 V | 630 V | 400 V | 630 V | 1000 V | 630 V | 1000 V | 1000 V |
| Rated surge voltage | 4 kV | 4 kV | 4 kV | 6 kV | 6 kV | 6 kV | 8 kV | 8 kV | 8 kV |
| Nominal current | 24 A | 24 A | 24 A | 24 A | 24 A | 24 A | 24 A | 24 A | 24 A |
| Approvals per | UL/CSA | | | UL/CSA | | | UL/CSA | | |
| Use group UL 1059 | B | C | D | B | C | D | B | C | D |
| Rated voltage | 300 V | – | 300 V | 300 V | – | 300 V | 300 V | – | 300 V |
| Nominal current UL | 15 A | – | 10 A | 15 A | – | 10 A | 15 A | – | 10 A |
| Nominal current CSA | 15 A | – | 10 A | 15 A | – | 10 A | 15 A | – | 10 A |

**Conductor and solder pin data:**
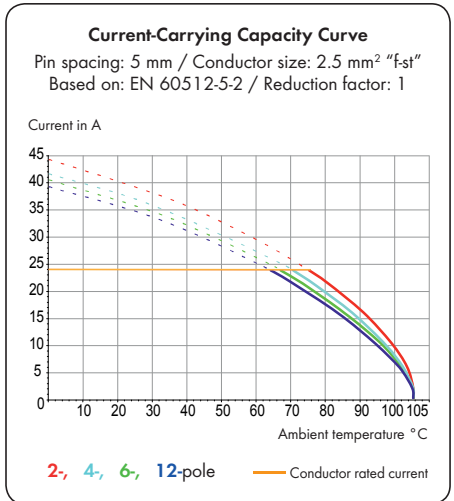
| | |
|---|---|
| Connection technology | CAGE CLAMP® |
| Conductor size: solid | 0.08 – 2.5 mm² |
| Conductor size: fine-stranded | 0.08 – 2.5 mm² |
| Conductor size: fine-stranded | 0.25 – 1.5 mm²  (with insulated ferrule) |
| Conductor size: fine-stranded | 0.25 – 1.5 mm²  (with uninsulated ferrule) |
| AWG | 28 – 12  (12: THHN, THWN) |
| Strip length | 5 – 6 mm / 0.20 – 0.24 in |
| Conductor entry angle | 0° to PCB |
| Solder pin: length/width | 4 mm / 0.7 x 0.7 mm |
| Solder pin: drilled hole diameter | 1.1$^{+0.1}$ mm |

**Current-Carrying Capacity Curve**
Pin spacing: 5 mm / Conductor size: 2.5 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1

Current in A

Ambient temperature °C

**2-, 4-, 6-, 12**-pole ——— Conductor rated current

**Material data:**

| | |
|---|---|
| Material group | I |
| Insulating material | Nylon 6.6 (PA 6.6) |
| Flammability rating per UL 94 | V0 |
| Lower/Upper temperature limit | –60°C / +105°C |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Electrolytic copper ($E_{Cu}$) |
| Contact plating | tin-plated |

**257 Series accessories:**                    **Page:**

| | |
|---|---|
| Marking accessories | 540 – 543 |
| Operating tools | 526 – 528 |
| Commoning strips | 67 – 69 |
| Test plug adapter | 196 |

**Technical data for Ex e II (⟨Ex⟩) versions:**

| Pin Spacing | 5/5.08 mm 0.2 in | 7.5/7.62 mm 0.3 in | 10/10.16 mm 0.4 in |
|---|---|---|---|
| Rating per | ATEX: PTB 06 ATEX 1061 U    IECEx: IECEx PTB 06.0042 U | | |
| Rated voltage | 176 V | 275 V | 440 V |
| Nominal current | 16 A | 16 A | 16 A |