

## Data sheet | Item number: 250-208

PCB terminal block; push-button; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 8-pole; Push-in CAGE CLAMP®; 1,50 mm<sup>2</sup>; gray

[www.wago.com/250-208](http://www.wago.com/250-208)

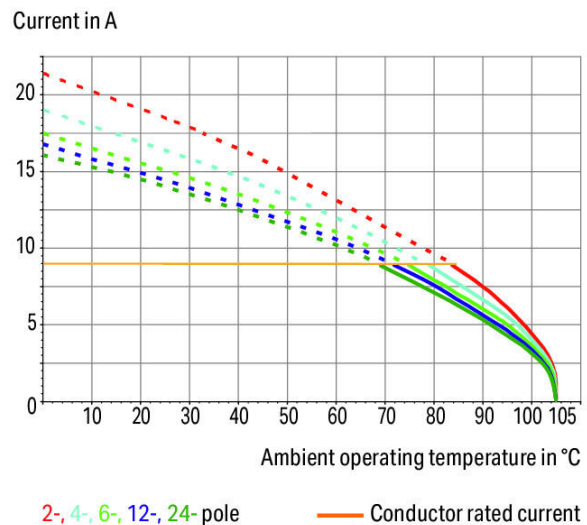


RoHS  
Compliant

BOMcheck.net

Color: ■

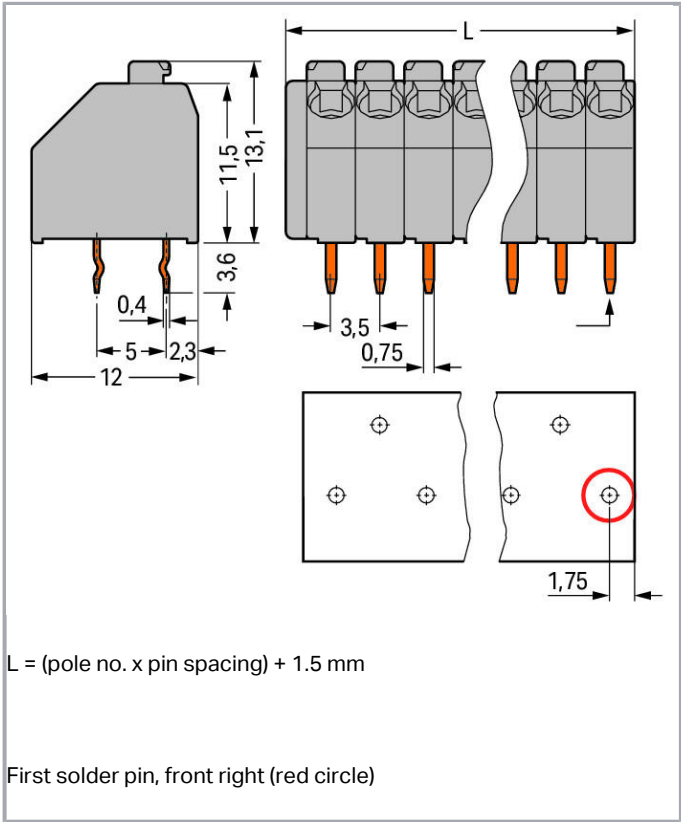
**Current-Carrying Capacity Curve**  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 1



Subject to changes. Please also observe the further product documentation!

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Item description

- Compact terminal strips with push-buttons
- Push-in terminations of solid and ferruled conductors
- Termination/removal of fine-stranded conductors via push-buttons
- 45° conductor entry angle provides easy, space-saving wiring
- Custom color combinations
- Terminal strips also available with spacers upon request

Data

Electrical data

Ratings per IEC/EN 60664-1

| Ratings per                 | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Nominal voltage (III/3)     | 250 V          |
| Rated surge voltage (III/3) | 4 kV           |
| Rated voltage (III/2)       | 320 V          |

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|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| Rated surge voltage (III/2) | 4 kV                                                                 |
| Nominal voltage (II/2)      | 630 V                                                                |
| Rated surge voltage (II/2)  | 4 kV                                                                 |
| Rated current               | 8 A                                                                  |
| Legend (ratings)            | (III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2 |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 8 A   |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 5 A   |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                                                   |                                     |
|---------------------------------------------------|-------------------------------------|
| Connection technology                             | Push-in CAGE CLAMP®                 |
| Actuation type                                    | Push-button                         |
| Solid conductor                                   | 0,2 ... 1,5 mm² / 24 ... 16 AWG     |
| Fine-stranded conductor                           | 0,2 ... 1,5 mm² / 24 ... 16 AWG     |
| Fine-stranded conductor; with insulated ferrule   | 0,25 ... 1 mm²                      |
| Fine-stranded conductor; with uninsulated ferrule | 0,25 ... 1 mm²                      |
| Strip length                                      | 8,5 ... 9,5 mm / 0.33 ... 0.37 inch |
| Conductor connection direction to PCB             | 45°                                 |
| Pole No.                                          | 8                                   |
| Total number of connection points                 | 8                                   |
| Total number of potentials                        | 8                                   |
| Number of connection types                        | 1                                   |
| Number of levels                                  | 1                                   |

### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 3,5 mm / 0.138 inch  |
| Width       | 29,5 mm / 1.161 inch |

Subject to changes. Please also observe the further product documentation!

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|                                      |                        |
|--------------------------------------|------------------------|
| Height                               | 16,7 mm / 0.657 inch   |
| Height from the surface              | 13,1 mm / 0.516 inch   |
| Depth                                | 12 mm / 0.472 inch     |
| Solder pin length                    | 3.6 mm                 |
| Solder pin dimensions                | 0,4 x 0,75 mm          |
| Drilled hole diameter with tolerance | 1 <sup>(+0,1)</sup> mm |

## PCB contact

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| PCB contact                         | THT                                        |
| Solder pin arrangement              | over the entire terminal strip (staggered) |
| Number of solder pins per potential | 1                                          |

## Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulation material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Clamping spring material    | Copper alloy                           |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.086 MJ                               |
| Weight                      | 3.9 g                                  |

## Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +105 °C |
|-------------------------|-----------------|

## Commercial data

|                       |                     |
|-----------------------|---------------------|
| Product Group         | 4 (Printed Circuit) |
| Packaging type        | BOX                 |
| Country of origin     | CH                  |
| GTIN                  | 4044918648684       |
| Customs tariff number | 85369010000         |

## Approvals / Certificates

### Country specific Approvals

Certificate

Subject to changes. Please also observe the further product documentation!

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| Logo                                                                               | Approval                                     | Additional Approval Text | name        |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|-------------|
|    | CCA<br>DEKRA Certification B.V.              | EN 60947                 | NTR NL-7100 |
|    | CCA<br>DEKRA Certification B.V.              | EN 60998                 | NTR NL-7449 |
|    | CSA<br>DEKRA Certification B.V.              | C22.2                    | 1132097     |
|    | KEMA/KEUR<br>DEKRA Certification B.V.        | EN 60998                 | 71-105258   |
|    | KEMA/KEUR<br>DEKRA Certification B.V.        | EN 60947                 | 2160584.18  |
|  | VDE<br>VDE Prüf- und Zertifizierungsinstitut | EN 60998                 | 40028888    |

## Ship Approvals

| Logo                                                                               | Approval                                         | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------|------------------|
|  | ABS<br>American Bureau of Shipping               | -                        | 19-HG1869876-PDA |
|  | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z       |

## UL-Approvals

| Logo | Approval                            | Additional Approval Text | Certificate name |
|------|-------------------------------------|--------------------------|------------------|
|      | UL<br>UL International Germany GmbH | UL 1977                  | E45171           |

Subject to changes. Please also observe the further product documentation!



UL  
UL International Germany GmbH

UL 1059

20180629-  
E45172

## Counterpart

## Compatible products

### check



**Item no.: 735-500**  
Test pin; 1 mm Ø; with solder connection for test wire

[www.wago.com/735-500](http://www.wago.com/735-500)

### ferrule



**Item no.: 216-101**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated

[www.wago.com/216-101](http://www.wago.com/216-101)



**Item no.: 216-102**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated

[www.wago.com/216-102](http://www.wago.com/216-102)



**Item no.: 216-103**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

[www.wago.com/216-103](http://www.wago.com/216-103)



**Item no.: 216-121**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated

[www.wago.com/216-121](http://www.wago.com/216-121)



**Item no.: 216-122**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated

[www.wago.com/216-122](http://www.wago.com/216-122)



**Item no.: 216-123**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated

[www.wago.com/216-123](http://www.wago.com/216-123)



**Item no.: 216-131**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

[www.wago.com/216-131](http://www.wago.com/216-131)



**Item no.: 216-132**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

[www.wago.com/216-132](http://www.wago.com/216-132)



**Item no.: 216-141**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

[www.wago.com/216-141](http://www.wago.com/216-141)

Subject to changes. Please also observe the further product documentation!

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|                                                                                   |                                                                                                                                                                                            |                                                                |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 216-142</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92     | <a href="http://www.wago.com/216-142">www.wago.com/216-142</a> |
|    | <b>Item no.: 216-143</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92        | <a href="http://www.wago.com/216-143">www.wago.com/216-143</a> |
|    | <b>Item no.: 216-151</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                             | <a href="http://www.wago.com/216-151">www.wago.com/216-151</a> |
|    | <b>Item no.: 216-152</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated                                                                             | <a href="http://www.wago.com/216-152">www.wago.com/216-152</a> |
|    | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                         | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|    | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                         | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |
|    | <b>Item no.: 216-203</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                             | <a href="http://www.wago.com/216-203">www.wago.com/216-203</a> |
|    | <b>Item no.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white                                                                         | <a href="http://www.wago.com/216-221">www.wago.com/216-221</a> |
|    | <b>Item no.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray                                                                         | <a href="http://www.wago.com/216-222">www.wago.com/216-222</a> |
|  | <b>Item no.: 216-223</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red                                                                             | <a href="http://www.wago.com/216-223">www.wago.com/216-223</a> |
|  | <b>Item no.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a> |
|  | <b>Item no.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a> |
|  | <b>Item no.: 216-243</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a> |
|  | <b>Item no.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a> |
|  | <b>Item no.: 216-263</b><br>Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a> |
|                                                                                   | <b>Item no.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow                                                                       | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|  | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green                                                                        | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |

Subject to changes. Please also observe the further product documentation!

**Item no.: 216-321**Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[www.wago.com/216-321](http://www.wago.com/216-321)**Item no.: 216-322**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; green[www.wago.com/216-322](http://www.wago.com/216-322)**Marking accessories****Item no.: 210-332/350-202**

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-202](http://www.wago.com/210-332/350-202)**Item no.: 210-332/350-204**

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-204](http://www.wago.com/210-332/350-204)**Item no.: 210-332/350-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-206](http://www.wago.com/210-332/350-206)**tools****Item no.: 210-657**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short

[www.wago.com/210-657](http://www.wago.com/210-657)**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)**Downloads****CAD/CAE-Data****CAD data**

2D/3D Models 250-208

URL

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**CAE data**

EPLAN Data Portal 250-208

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**PCB Design**

Symbol and Footprint 250-208

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

**Supported formats:**

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro

—  
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- Mentor Graphics Design Expedition 99 and 2000
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- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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## Installation Notes

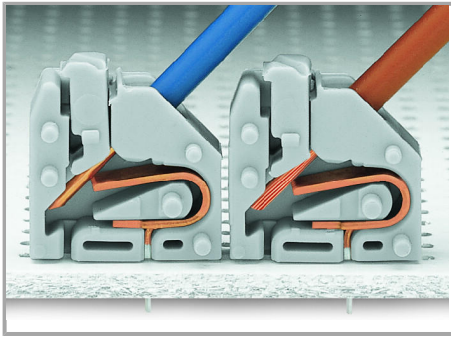
### Conductor termination

Subject to changes. Please also observe the further product documentation!

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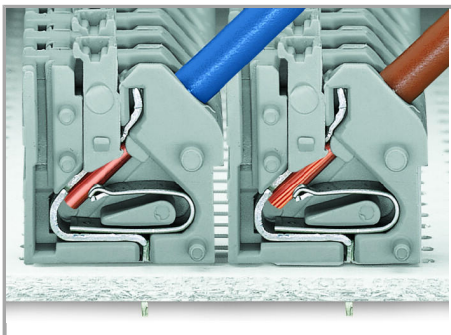
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Inserting solid conductors via push-in termination.

Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

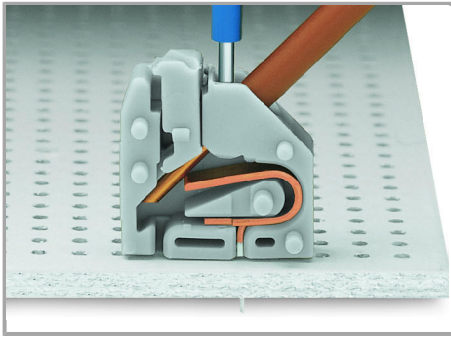
#### Conductor termination



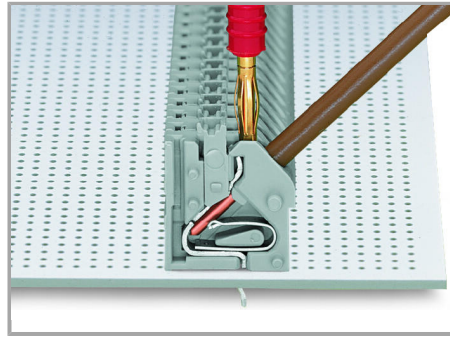
Space-saving wiring, 250 Series – 5 mm pin spacing.

#### Testing

Subject to changes. Please also observe the further product documentation!

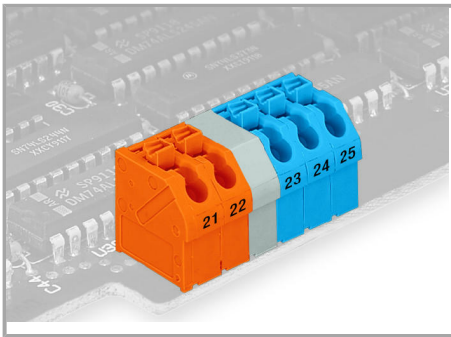


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

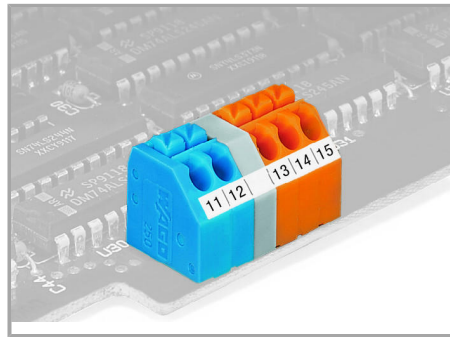


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

### Marking



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.

Subject to changes. Please also observe the further product documentation!