

## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

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PCB connector, nominal current: 12 A, number of positions: 10, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin




### Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 028770 |
| GTIN                                 | 4017918028770   |
| Weight per Piece (excluding packing) | 16.730 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | United States   |

### Technical data

#### Dimensions

|              |         |
|--------------|---------|
| Length [ l ] | 18.2 mm |
| Width [ w ]  | 50 mm   |
| Height [ h ] | 15 mm   |
| Pitch        | 5 mm    |
| Dimension a  | 45 mm   |

#### General

# Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

## Technical data

### General

|  |   |
|--|---|
| Range of articles                      | MSTB 2,5/..-ST  |
| Number of positions                    | 10  |
| Connection method                      | Screw connection with tension sleeve                      |
| Insulating material group              | I   |
| Rated surge voltage (III/3)            | 4 kV  |
| Rated surge voltage (III/2)            | 4 kV  |
| Rated surge voltage (II/2)             | 4 kV  |
| Rated voltage (III/3)                  | 250 V   |
| Rated voltage (III/2)                  | 320 V   |
| Rated voltage (II/2)                   | 630 V   |
| Connection in acc. with standard       | EN-VDE  |
| Nominal current $I_N$                  | 12 A  |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                       |
| Maximum load current                   | 12 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Internal cylindrical gage              | A3  |
| Stripping length                       | 7 mm  |
| Screw thread                           | M3  |
| Tightening torque, min                 | 0.5 Nm  |
| Tightening torque max                  | 0.6 Nm  |

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                      | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 24                   |
| Conductor cross section AWG max.   | 12                   |
| 2 conductors with same cross section, solid min.                           | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                           | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded min.                        | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                        | 1.5 mm <sup>2</sup>  |

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### Technical data

#### Connection data

|   |                      |
|---|----------------------|
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup>  |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 12                   |

#### Standards and Regulations

|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

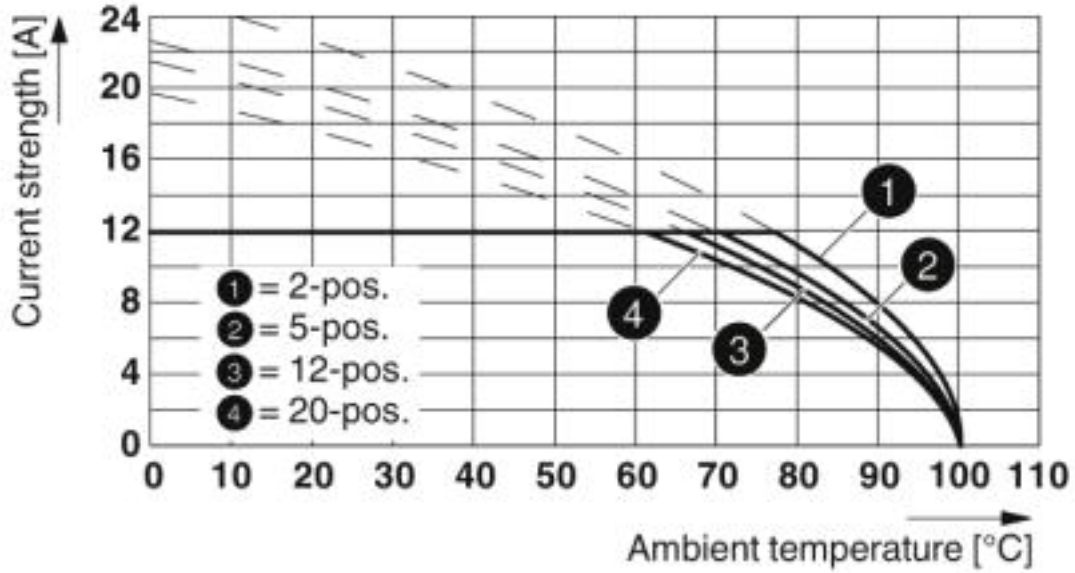
#### Environmental Product Compliance

|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

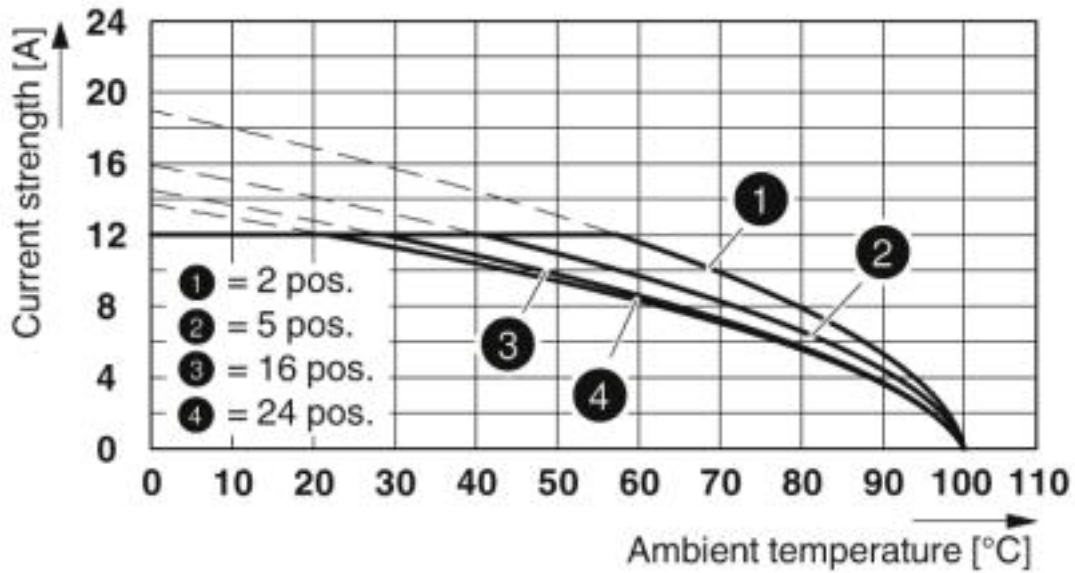
# Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

Diagram



Type: MSTB 2,5/...-ST with MSTBW 2,5/...-G

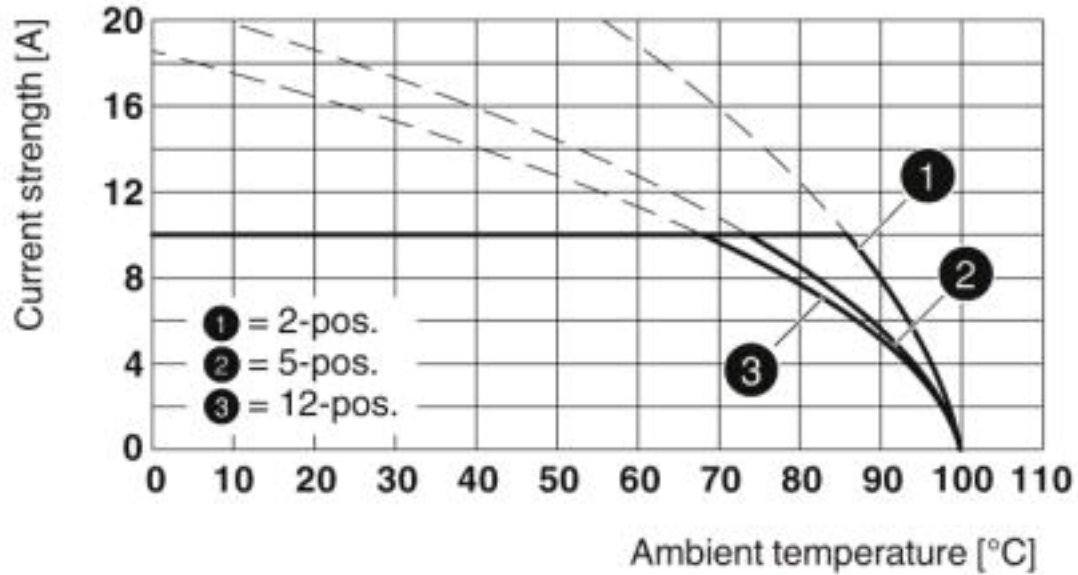
Diagram



Type: MSTB 2,5/...-ST with MSTBV 2,5/...-G

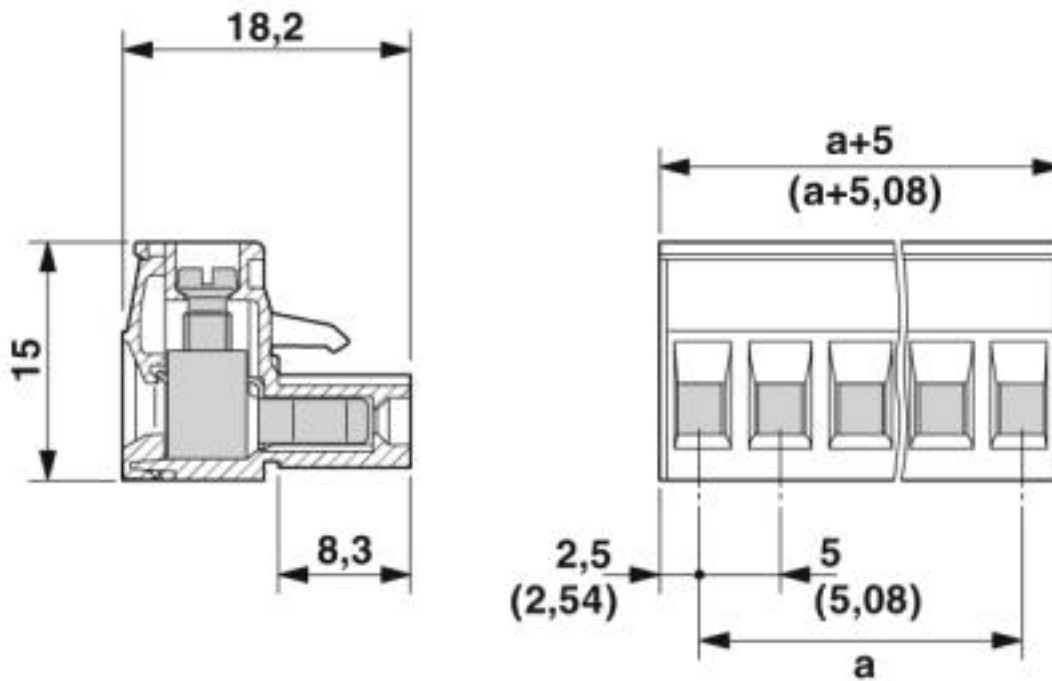
# Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

Diagram



Type: MSTB 2,5/...-ST with MDSTBV 2,5/...-G

Dimensional drawing



# Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Approvals

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#### Approvals

CSA / IEC EE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

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#### Ex Approvals


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### Approval details


# Printed-circuit board connector - MSTB 2,5/10-ST - 1754601


## Approvals

|                            |   |   |                 |
|----------------------------|---|---|-----------------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | LR13631-2585950 |
|                            | B   | D   |                 |
| Nominal voltage UN         | 300 V   | 300 V   |                 |
| Nominal current IN         | 15 A  | 10 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 28-12   | 28-12   |                 |

|                            |   |   |                |
|----------------------------|---|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60988-B1B2 |
| Nominal voltage UN         | 250 V   |   |                |
| Nominal current IN         | 12 A  |   |                |
| mm <sup>2</sup> /AWG/kcmil | 0.2-2.5   |   |                |

|  |   |  |          |
|--|---|--|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40004701 |
| Nominal voltage UN                         | 250 V   |  |          |
| Nominal current IN                         | 12 A  |  |          |
| mm <sup>2</sup> /AWG/kcmil                 | 0.2-2.5   |  |          |

|     |   |  |         |
|-----|---|--|---------|
| EAC |  |  | B.01742 |
|-----|---|--|---------|

|                            |   |   |                 |
|----------------------------|---|---|-----------------|
| cULus Recognized           |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-19931011 |
|                            | B   | D   |                 |
| Nominal voltage UN         | 300 V   | 150 V   |                 |
| Nominal current IN         | 15 A  | 15 A  |                 |
| mm <sup>2</sup> /AWG/kcmil | 30-12   | 30-12   |                 |

## Accessories

## Accessories

## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

### Accessories

#### Bridge

Insertion bridge - EBP 2- 5 - 1733169



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#### Cable housing

Cable housing - KGS-MSTB 2,5/10 - 1783740



Cable housing, pitch: 0 mm, number of positions: 10, dimension a: 50 mm, color: green

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#### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

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#### Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm

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#### Screwdriver tools



## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

### Accessories

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Additional products

Feed-through header - MSTBW 2,5/10-G - 1736030



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Feed-through header - MSTBV 2,5/10-G - 1753592



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Feed-through header - MSTB 2,5/10-G - 1754591



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Printed-circuit board connector - MSTBVA 2,5/10-G - 1755503



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

### Accessories

#### Printed-circuit board connector - MSTBA 2,5/10-G - 1757543

PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MDSTB 2,5/10-G1 - 1762774

PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Feed-through header - MDSTBV 2,5/10-G1 - 1762923

PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Feed-through header - MSTB 2,5/10-G-LA - 1768260

PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Printed-circuit board connector - SMSTB 2,5/10-G - 1769311

PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

### Accessories

#### Feed-through header - SMSTBA 2,5/10-G - 1769887



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

#### Feed-through header - MSTBA 2,5/10-G-LA - 1770562



PCB headers, nominal current: 12 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

#### Feed-through header - MDSTBVA 2,5/10-G - 1845866



PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Feed-through header - MDSTBV 2,5/10-G - 1846014



PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1836477, 1836480. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

#### Feed-through header - MDSTB 2,5/10-G - 1846441



PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1736771, 1736768. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

## Printed-circuit board connector - MSTB 2,5/10-ST - 1754601

### Accessories

#### Feed-through header - MDSTBA 2,5/10-G - 1846593



PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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#### Feed-through header - MDSTBW 2,5/10-G - 1846894



PCB headers, nominal current: 10 A, number of positions: 10, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!