

## Distribution block - PTFIX 10/6X4 BK - 3273870

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Distribution block, nom. voltage: 450 V, nominal current: 32 A, connection method: Push-in connection, Push-in connection, number of connections: 7, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, width: 27.9 mm, height: 21.7 mm, color: black, mounting type: for snapping onto a DIN rail adapter



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 8 pc                                                                                                    |
| Minimum order quantity | 8 pc                                                                                                    |
| GTIN                   | <br>4 055626 668055 |
| GTIN                   | 4055626668055                                                                                           |

### Technical data

#### General

|                                        |                    |
|----------------------------------------|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 7                  |
| Potentials                             | 1                  |
| Nominal cross section                  | 4 mm <sup>2</sup>  |
| Nominal cross section feed-in          | 10 mm <sup>2</sup> |
| Color                                  | black              |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Rated surge voltage                    | 6 kV               |
| Degree of pollution                    | 3                  |
| Overvoltage category                   | III                |
| Insulating material group              | I                  |
| Maximum load current                   | 41 A               |
| Maximum total current                  | 63 A               |
| Nominal current I <sub>N</sub>         | 32 A               |
| Nominal voltage U <sub>N</sub>         | 450 V              |

# Distribution block - PTFIX 10/6X4 BK - 3273870

## Technical data

### General

|                                                                         |                                                                        |
|-------------------------------------------------------------------------|------------------------------------------------------------------------|
| Maximum load current                                                    | 57 A                                                                   |
| Nominal current $I_N$                                                   | 57 A                                                                   |
| Open side panel                                                         | No                                                                     |
| Ambient temperature (operation)                                         | -60 °C ... 85 °C                                                       |
| Ambient temperature (storage/transport)                                 | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %                                                          |
| Ambient temperature (assembly)                                          | -5 °C ... 70 °C                                                        |
| Ambient temperature (actuation)                                         | -5 °C ... 70 °C                                                        |
| Shock protection test specification                                     | DIN EN 50274 (VDE 0660-514):2002-11                                    |
| Back of the hand protection                                             | guaranteed                                                             |
| Finger protection                                                       | guaranteed                                                             |
| Result of thermal test                                                  | Test passed                                                            |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s                                                                   |
| Oscillation, broadband noise test result                                | Test passed                                                            |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2018-05                                    |
| Test spectrum                                                           | Service life test category 2, bogie-mounted                            |
| Test frequency                                                          | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$                         |
| ASD level                                                               | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$                              |
| Acceleration                                                            | 3.12 g                                                                 |
| Test duration per axis                                                  | 5 h                                                                    |
| Test directions                                                         | X-, Y- and Z-axis                                                      |
| Shock test result                                                       | Test passed                                                            |
| Test specification, shock test                                          | DIN EN 50155 (VDE 0115-200):2018-05                                    |
| Shock form                                                              | Half-sine                                                              |
| Acceleration                                                            | 30g                                                                    |
| Shock duration                                                          | 18 ms                                                                  |
| Number of shocks per direction                                          | 3                                                                      |
| Test directions                                                         | X-, Y- and Z-axis (pos. and neg.)                                      |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                                                                 |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C                                                                 |
| Static insulating material application in cold                          | -60 °C                                                                 |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                                                                 |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                                                                 |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                                                               |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                                                                 |
| 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                                                            |

# Distribution block - PTFIX 10/6X4 BK - 3273870

## Technical data

### Dimensions

|        |         |
|--------|---------|
| Width  | 27.9 mm |
| Length | 28.6 mm |
| Height | 21.7 mm |

### Connection data

|                                                                                                        |                                             |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Connection method                                                                                      | Push-in connection                          |
| Stripping length                                                                                       | 10 mm ... 12 mm                             |
| Connection in acc. with standard                                                                       | IEC 60998-2-2                               |
| Conductor cross section solid min.                                                                     | 0.2 mm <sup>2</sup>                         |
| Conductor cross section solid max.                                                                     | 6 mm <sup>2</sup>                           |
| Conductor cross section AWG min.                                                                       | 24                                          |
| Conductor cross section AWG max.                                                                       | 10                                          |
| Conductor cross section flexible min.                                                                  | 0.2 mm <sup>2</sup>                         |
| Conductor cross section flexible max.                                                                  | 4 mm <sup>2</sup>                           |
| Min. AWG conductor cross section, flexible                                                             | 24                                          |
| Max. AWG conductor cross section, flexible                                                             | 12                                          |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.2 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 4 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.2 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 4 mm <sup>2</sup>                           |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup>                         |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1 mm <sup>2</sup>                           |
| Connection cross sections directly pluggable                                                           | 0.5 mm <sup>2</sup> 6 mm <sup>2</sup> 20 10 |
| Conductor cross section solid min.                                                                     | 0.5 mm <sup>2</sup>                         |
| Conductor cross section solid max.                                                                     | 6 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.75 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 4 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 4 mm <sup>2</sup>                           |
| Internal cylindrical gage                                                                              | A4                                          |
| Connection                                                                                             | Feed-in stage                               |
| Connection method                                                                                      | Push-in connection                          |
| Stripping length                                                                                       | 12 mm ... 14 mm                             |
| Connection in acc. with standard                                                                       | IEC 60998-2-2                               |
| Conductor cross section solid min.                                                                     | 0.5 mm <sup>2</sup>                         |
| Conductor cross section solid max.                                                                     | 10 mm <sup>2</sup>                          |
| Conductor cross section AWG min.                                                                       | 20                                          |
| Conductor cross section AWG max.                                                                       | 6                                           |
| Conductor cross section flexible min.                                                                  | 0.5 mm <sup>2</sup>                         |
| Conductor cross section flexible max.                                                                  | 10 mm <sup>2</sup>                          |

## Distribution block - PTFIX 10/6X4 BK - 3273870

### Technical data

#### Connection data

|                                                                                                        |                     |
|--------------------------------------------------------------------------------------------------------|---------------------|
| Min. AWG conductor cross section, flexible                                                             | 20                  |
| Max. AWG conductor cross section, flexible                                                             | 8                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 10 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 10 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 4 mm <sup>2</sup>   |

#### Standards and Regulations

|                                        |               |
|----------------------------------------|---------------|
| Connection in acc. with standard       | IEC 60998-2-2 |
|                                        | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

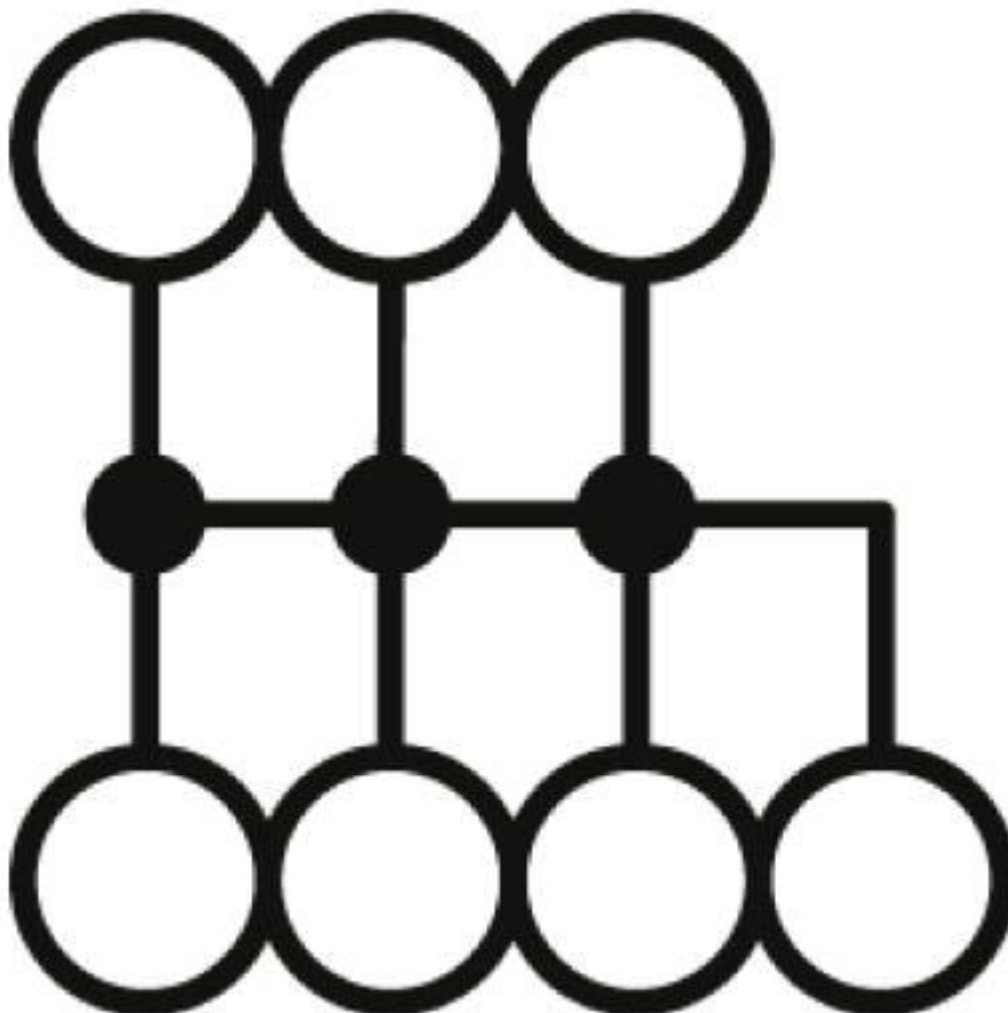
#### Environmental Product Compliance

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

### Drawings

## Distribution block - PTFIX 10/6X4 BK - 3273870

Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 11.0   | 27141120 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |

## Distribution block - PTFIX 10/6X4 BK - 3273870

### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC000897 |
|----------|----------|

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                    |                                                                                                                                         |       |
|--------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                  | C                                                                                                                                       |       |
| Nominal voltage UN | 600 V                                                                              | 600 V                                                                                                                                   |       |
| Nominal current IN | 57 A                                                                               | 57 A                                                                                                                                    |       |
| mm²/AWG/kcmil      | 20-8                                                                               | 20-8                                                                                                                                    |       |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL 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> | FILE E 60425 |
|                    | B                                                                                   | C                                                                                                                                                     |              |
| Nominal voltage UN | 600 V                                                                               | 600 V                                                                                                                                                 |              |
| Nominal current IN | 57 A                                                                                | 57 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                                  |              |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL 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> | FILE E 60425 |
|                    | B                                                                                   | C                                                                                                                                                     |              |
| Nominal voltage UN | 600 V                                                                               | 600 V                                                                                                                                                 |              |
| Nominal current IN | 57 A                                                                                | 57 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                                  |              |

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

## Distribution block - PTFIX 10/6X4 BK - 3273870

### Approvals

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00644 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red

Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: gray

Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

##### Labeled terminal marker

Marker card - SK 6,2/3,8:FORTL.ZAHLEN - 0804374



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: 6.2 mm, lettering field size: 6.2 x 3.8 mm

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### Accessories

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 1-10 - 0804374:0001



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 1 ... 10, 10-section marker strips with 12 identical decades, white

---

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 11-20 - 0804374:0011



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 11 ... 20, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 21-30 - 0804374:0021



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 21 ... 30, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 31-40 - 0804374:0031



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 31 ... 40, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 41-50 - 0804374:0041



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 41 ... 50, 10-section marker strips with 12 identical decades, white

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### Mounting material

## Distribution block - PTFIX 10/6X4 BK - 3273870

### Accessories

Flange - PTFIX-F - 3274060



Flange, with screw-on fixing, length: 28.6 mm, width: 8.6 mm, height: 21.7 mm, color: gray

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DIN rail adapter - PTFIX-NS15A - 3274058



DIN rail adapter, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

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DIN rail adapter - PTFIX-NS15A-FIX - 3274059



DIN rail adapter, with end stop function, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

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DIN rail adapter - PTFIX-NS35 - 3274054



DIN rail adapter, length: 58.1 mm, width: 28.6 mm, height: 11 mm, color: gray

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DIN rail adapter - PTFIX-NS35A - 3274056



DIN rail adapter, length: 45.7 mm, width: 10.3 mm, height: 11.9 mm, color: gray

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## Distribution block - PTFIX 10/6X4 BK - 3273870

### Accessories

#### DIN rail adapter - PTFIX-NS35A-FIX - 3274057



DIN rail adapter, with end stop function, length: 45.7 mm, width: 10.3 mm, height: 12 mm, color: gray

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### Terminal marking

#### Marker for terminal blocks - US-TML (104X3,8) - 0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

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#### Marker for terminal blocks - US-TML (104X2,8) - 0830767



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

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#### Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

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#### Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

## Distribution block - PTFIX 10/6X4 BK - 3273870

### Accessories

#### Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

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#### Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (104X2,8)R - 0801832



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (EX2,8)R - 0801836



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1

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#### Label - MM-TML (EX3,8)R C1 WH/BK - 1092026



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 3.8#mm

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