Relay socket - RIF-1-BPT/2X21 - 2900931

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RIF-1... relay base, for miniature power relay with 1 or 2 PDTs or solid-state relays of the same design, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

Key Commercial Data

<table>
<thead>
<tr>
<th>Packing unit</th>
<th>1 STK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per Piece (excluding packing)</td>
<td>50.0 g</td>
</tr>
<tr>
<td>Custom tariff number</td>
<td>85366990</td>
</tr>
<tr>
<td>Country of origin</td>
<td>China</td>
</tr>
</tbody>
</table>

Technical data

Dimensions

<table>
<thead>
<tr>
<th>Width</th>
<th>16 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>96 mm</td>
</tr>
<tr>
<td>Depth with retaining bracket</td>
<td>75 mm</td>
</tr>
</tbody>
</table>

Ambient conditions

<table>
<thead>
<tr>
<th>Ambient temperature (operation)</th>
<th>-40 °C ... 85 °C (Depends on application/assembly)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (storage/transport)</td>
<td>-40 °C ... 85 °C</td>
</tr>
</tbody>
</table>

Input data

<table>
<thead>
<tr>
<th>Protective circuit</th>
<th>depending on the selected input/suppressor modules</th>
</tr>
</thead>
</table>

Connection data, input side

<table>
<thead>
<tr>
<th>Connection name</th>
<th>Input side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection method</td>
<td>Push-in connection</td>
</tr>
<tr>
<td>Stripping length</td>
<td>8 mm</td>
</tr>
</tbody>
</table>
Relay socket - RIF-1-BPT/2X21 - 2900931

Technical data

Connection data, input side

| Conductor cross section solid | 0.14 mm² ... 1.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
|                               | 0.14 mm² ... 1 mm² (Ferrule with plastic sleeve) |
|                               | 0.14 mm² ... 1.5 mm² (Ferrules without plastic sleeve) |
| Conductor cross section AWG   | 26 ... 16 |

Connection data, output side

<table>
<thead>
<tr>
<th>Connection name</th>
<th>Output side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection method</td>
<td>Push-in connection</td>
</tr>
<tr>
<td>Stripping length</td>
<td>8 mm</td>
</tr>
<tr>
<td>Conductor cross section solid</td>
<td>0.14 mm² ... 1.5 mm²</td>
</tr>
<tr>
<td>Conductor cross section flexible</td>
<td>0.14 mm² ... 1.5 mm²</td>
</tr>
<tr>
<td></td>
<td>0.14 mm² ... 1 mm² (Ferrule with plastic sleeve)</td>
</tr>
<tr>
<td></td>
<td>0.14 mm² ... 1.5 mm² (Ferrules without plastic sleeve)</td>
</tr>
<tr>
<td>Conductor cross section AWG</td>
<td>26 ... 16</td>
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</tbody>
</table>

General

<table>
<thead>
<tr>
<th>Type of note</th>
<th>Notes on operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note</td>
<td>FBS 2-6... plug-in bridge for the input side (A2) and FBS-2-8... plug-in bridge for the output side (11/21)</td>
</tr>
<tr>
<td>Nominal voltage $U_n$</td>
<td>250 V AC/DC</td>
</tr>
<tr>
<td>Nominal current $I_n$</td>
<td>max. 13 A (Depends on application/assembly)</td>
</tr>
<tr>
<td>Protective circuit</td>
<td>depending on the selected input/supressor modules</td>
</tr>
<tr>
<td>Color</td>
<td>gray</td>
</tr>
</tbody>
</table>

Standards and Regulations

| Connection in acc. with standard | CSA |

Classifications

eCl@ss

eCl@ss 4.0 27371102
eCl@ss 4.1 27371102
eCl@ss 5.0 27371603
eCl@ss 5.1 27371603
eCl@ss 6.0 27371603
eCl@ss 7.0 27371603
eCl@ss 8.0 27371603
eCl@ss 9.0 27371603
Relay socket - RIF-1-BPT/2X21 - 2900931

Classifications

ETIM

<table>
<thead>
<tr>
<th>ETIM 3.0</th>
<th>EC001456</th>
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<tr>
<td>ETIM 4.0</td>
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<td>ETIM 5.0</td>
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UNSPSC

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<tr>
<th>UNSPSC 6.01</th>
<th>30211917</th>
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<td>UNSPSC 7.0901</td>
<td>39121516</td>
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<td>UNSPSC 11</td>
<td>39121516</td>
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<tr>
<td>UNSPSC 12.01</td>
<td>39121516</td>
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<tr>
<td>UNSPSC 13.2</td>
<td>39121516</td>
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Approvals

Approvals

UL Recognized / CSA / EAC / GL / LR / EAC

Ex Approvals

Approvals submitted

Approval details

UL Recognized

CSA

EAC

GL
Relay socket - RIF-1-BPT/2X21 - 2900931

Approvals

<table>
<thead>
<tr>
<th>LR</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>EAC</td>
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</tbody>
</table>

Accessories

Accessories

End block

End clamp - CLIPFIX 35 - 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

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, Color: red

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, Color: blue
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, Color: black

Jumper

Plug-in bridge - FBS 2-6 - 3030336

Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 10.7 mm, Number of positions: 2, Color: red
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

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

Plug-in bridge, Pitch: 6.2 mm, Number of positions: 2, Color: blue

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

Plug-in bridge, Pitch: 6.2 mm, Number of positions: 2, Color: gray

Plug-in bridge - FBS 2-8 - 3030284

Plug-in bridge, Pitch: 8.2 mm, Length: 29.6 mm, Width: 14.7 mm, Number of positions: 2, Color: red

Plug-in bridge - FBS 2-8 BU - 3032567

Plug-in bridge, Pitch: 8.2 mm, Number of positions: 2, Color: blue

Plug-in bridge - FBS 2-8 GY 7042 - 3032541

Bridge for potential distribution

Plug-in module
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Plug-in module - RIF-LDP-12-24 DC - 2900939

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 - 24 V DC ±20%

Plug-in module - RIF-LDP-48-60 DC - 2900940

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 48 - 60 V DC ±20%

Plug-in module - RIF-LDP-110 DC - 2900941

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 110 V DC ±20%

Plug-in module - RIF-LV-12-24 UC - 2900942

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 12 - 24 V AC/DC ±20%

Plug-in module - RIF-LV-48-60 UC - 2900943

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 48 - 60 V AC/DC ±20 %
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Plug-in module - RIF-LV-120-230 AC/110 DC - 2900944

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor and yellow LED, input voltage: 120 - 230 V AC/110 V DC ±20%

Plug-in module - RIF-V-12-24 UC - 2900945

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 12 - 24 V AC/DC ±20%

Plug-in module - RIF-V-48-60 UC - 2900947

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 48 - 60 V AC/DC ±20%

Plug-in module - RIF-V-120-230 UC - 2900948

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 120 - 230 V AC/DC ±20%

Plug-in module - RIF-RC-12-24 UC - 2900949

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 12 - 24 V AC/DC ±20%
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Plug-in module - RIF-RC-48-60 UC - 2900950

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 48 - 60 V AC/DC ±20%

Plug-in module - RIF-RC-120-230 UC - 2900951

Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with RC element, input voltage: 120 - 230 V AC/DC ±20%

Timer module - RIF-T3-24UC - 2902647

Plug-in module for extending a relay module to create a timer relay, 3 time functions, 4 time ranges, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, input voltage: 24 V DC

Retaining bracket

Retaining bracket - RIF-RH-1 - 2900953

Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 16 mm tall miniature power relay and solid-state relay

Retaining bracket - RIF-RH-1-H - 2904468

Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 25 mm tall miniature power relay and solid-state relay
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Retaining bracket - RIF-RHM-1 - 2905986

Relay retaining bracket, wire model, suitable for RIF-1 relay base, for 16 mm high octal miniature power and solid-state relays

Retaining bracket - RIF-RHM-1-H - 2905985

Relay retaining bracket, wire model, suitable for RIF-1 relay base, for 25 mm high octal miniature power relays

Single relay

Single relay - REL-MR- 12DC/21HC - 2961309

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 12 V DC

Single relay - REL-MR- 24DC/21HC - 2961312

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V DC

Single relay - REL-MR- 48DC/21HC - 2834821

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 48 V DC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR- 60DC/21HC - 2961325

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, 60 V DC

Single relay - REL-MR-110DC/21HC - 2961338

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 110 V DC

Single relay - REL-MR- 24AC/21HC - 2961406

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V AC

Single relay - REL-MR-120AC/21HC - 2961419

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 120 V AC

Single relay - REL-MR-230AC/21HC - 2961422

Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 230 V AC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

<table>
<thead>
<tr>
<th>Single relay - REL-MR- 12DC/21HC AU - 2961532</th>
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</thead>
<tbody>
<tr>
<td><img src="https://www.phoenixcontact.com/us/products/2900931" alt="Image" /></td>
</tr>
<tr>
<td>Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 12 V DC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Single relay - REL-MR- 24DC/21HC AU - 2961545</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://www.phoenixcontact.com/us/products/2900931" alt="Image" /></td>
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<tr>
<td>Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 24 V DC</td>
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</table>

<table>
<thead>
<tr>
<th>Single relay - REL-MR-110DC/21HC AU - 2961561</th>
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<tbody>
<tr>
<td><img src="https://www.phoenixcontact.com/us/products/2900931" alt="Image" /></td>
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<tr>
<td>Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 110 V DC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Single relay - REL-MR- 24AC/21HC AU - 2961503</th>
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<tbody>
<tr>
<td><img src="https://www.phoenixcontact.com/us/products/2900931" alt="Image" /></td>
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<tr>
<td>Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 24 V AC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Single relay - REL-MR-120AC/21HC AU - 2961516</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://www.phoenixcontact.com/us/products/2900931" alt="Image" /></td>
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<tr>
<td>Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 120 V AC</td>
</tr>
</tbody>
</table>
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR-230AC/21HC AU - 2961529

Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 PDT, input voltage 230 V AC

Single relay - REL-MR- 12DC/21-21 - 2961257

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 12 V DC

Single relay - REL-MR- 24DC/21-21 - 2961192

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 24 V DC

Single relay - REL-MR- 48DC/21-21 - 2834834

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 48 V DC

Single relay - REL-MR- 60DC/21-21 - 2961273

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 60 V DC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR-110DC/21-21 - 2961202

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 110 V DC

Single relay - REL-MR- 24AC/21-21 - 2961435

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 24 V AC

Single relay - REL-MR-120AC/21-21 - 2961448

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 120 V AC

Single relay - REL-MR-230AC/21-21 - 2961451

Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 230 V AC

Single relay - REL-MR- 12DC/21-21AU - 2961299

Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 12 V DC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR- 24DC/21AU - 2961215
Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 24 V DC

Single relay - REL-MR- 48DC/21AU - 2834847
Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 48 V DC

Single relay - REL-MR- 60DC/21AU - 2961286
Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 60 V DC

Single relay - REL-MR-110DC/21AU - 2961228
Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 110 V DC

Single relay - REL-MR- 24AC/21AU - 2961464
Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 24 V AC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR-120AC/21-21AU - 2961477

Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 120 V AC


Plug-in miniature power relay, with multi-layer gold contact, 2 PDTs, input voltage 230 V AC

Single relay - REL-MR-24DC/21HC/MS - 2987888

Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

Single relay - REL-MR-24AC/21HC/MS - 2987891

Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 24 V AC

Single relay - REL-MR-120AC/21HC/MS - 2987901

Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 120 V AC
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Single relay - REL-MR-230AC/21HC/MS - 2987914

Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 230 V AC

Single relay - REL-MR-24DC/21HC AU/MS - 2987927

Plug-in miniature relay, with multi-layer contact with hard gold coating, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

Single relay - REL-MR-230AC/21HC AU/MS - 2987930

Plug-in miniature relay, with multi-layer contact with hard gold coating, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 230 V AC

Single relay - REL-MR-24DC/21-21/MS - 2987943

Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2, input voltage 24 V DC

Single relay - REL-MR-24AC/21-21/MS - 2987956

Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, input voltage 24 V AC
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>REL-MR-120AC/21-21/MS - 2987969</td>
<td>Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 120 V AC</td>
</tr>
<tr>
<td>REL-MR-230AC/21-21/MS - 2987972</td>
<td>Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 230 V AC</td>
</tr>
<tr>
<td>REL-MR-24DC/21-21AU/MS - 2987985</td>
<td>Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC</td>
</tr>
<tr>
<td>REL-MR-230AC/21-21AU/MS - 2987998</td>
<td>Plug-in miniature relay, with multi-layer contact with hard gold coating, 2 PDTs, test button, mechanical switch position indicator, status LED, coil voltage 230 V AC</td>
</tr>
<tr>
<td>OPT-5DC/24DC/5 - 2982113</td>
<td>Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 5 V DC, output: 3 - 33 V DC/5 A</td>
</tr>
</tbody>
</table>
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Miniature solid-state relay - OPT-24DC/24DC/5 - 2982100

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

Miniature solid-state relay - OPT-60DC/24DC/5 - 2982126

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 33 V DC/5 A

Miniature solid-state relay - OPT-5DC/230AC/2 - 2982168

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 5 V DC, output: 24 - 253 V AC/2 A

Miniature solid-state relay - OPT-24DC/230AC/2 - 2982171

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/2 A

Miniature solid-state relay - OPT-60DC/230AC/2 - 2982184

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 24 - 253 V AC/2 A

Terminal marking
Relay socket - RIF-1-BPT/2X21 - 2900931

Accessories

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

Zack marker strip - ZB 15:UNBEDRUCKT - 0811972

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 15.2 mm, Lettering field: 10.5 x 15.1 mm

Test plug terminal block

Test plugs - MPS-MT - 0201744

Test plugs, Color: silver