Overview W-Series

**W-Series / Clamping yoke screw connection technology**

For a long time now, Weidmüller’s W-Series terminal with screw clamp connection technology, has set the standard. With many advantages, the W-Series remains market leader and unsurpassed.

The W-Series offers solutions for conductor cross-sections from 0.06 to 300 mm² and for all common electrical functions. Another advantage is the choice of plug-in (ZQV) or screw-in (WQV) cross-connections within one modular terminal. It brings considerable time savings compared to all other screw terminals on the market.

Thanks to the patented design of Weidmüller’s W-Series screw connection technology it is possible for two conductors of the same cross-section to be connected in one and the same clamping point without difficulty.

**Versions**

**W-standard**
- Same contour design from 2.5 to 10 mm²
- Conductor sizes from 0.05 to 300 mm²
- Large clamping range

**W-compact**
- Smaller size
- Identified by an “N” in the type designation
- Conductor sizes from 0.13 to 150 mm²

---

**Product overview**

<table>
<thead>
<tr>
<th>Rated cross-section</th>
<th>1.5 mm²</th>
<th>2.5 mm²</th>
<th>4 mm²</th>
<th>6 mm²</th>
<th>10 mm²</th>
<th>16 mm²</th>
<th>35 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed-through terminals</td>
<td>Standard</td>
<td>Compact</td>
<td>Standard</td>
<td>Compact</td>
<td>Standard</td>
<td>Compact</td>
<td>Standard</td>
</tr>
<tr>
<td>2 connections</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>3 and 4 connections</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PE terminals</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 connections</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>3 and 4 connections</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fuse terminals</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
<th>Standard</th>
<th>Compact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disconnect test terminal blocks</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>N-conductor installation terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>N-conductor disconnect terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Plug-in terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Initiator/Actuator terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Terminals with electronic components</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Miniature terminals for TS 15</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated cross-section</th>
<th>50 mm²</th>
<th>70 mm²</th>
<th>95 mm²</th>
<th>120 mm²</th>
<th>150 mm²</th>
<th>240 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed-through terminals</td>
<td>Standard</td>
<td>Compact</td>
<td>Standard</td>
<td>Compact</td>
<td>Standard</td>
<td>Compact</td>
</tr>
<tr>
<td>PE terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>N-conductor disconnect terminals</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
The connection
Separation of electrical and mechanical function thus providing galvanic isolation.
• Hardened steel screw clamp technology.
• Busbar of copper for low through resistance.
Tin-plated surface for minimum contact resistances.

Cross-connections, also pluggable
• Screw-in or plug-in cross-connections as required
• For screw terminals, the pluggable cross-connection (ZQV) is unique, with considerable time savings
• Cross-connections with up to 10 poles available as standard for 2.5 and 4
• 20-pole cross-connections (ZQV) available for custom fabrication

Easy to use
• Can be clipped to or removed from the terminal rail in either direction
• Features captive screw.
• Recessed clamping screw position provides guide for screwdriver
• All parts fitted captive within the terminal
• Numerous labelling options

Reliable contact
• W-Series offers galvanic isolation by providing a steel screw clamp technology for mechanical function, with copper busbar for low through resistance and electrical function.
• No maintenance: no need to retighten the clamping screw
• Vibration-proof connection: many W-terminals certified for railway use to EN 61373
• Highest contact force of all connection systems

Safe to use
• Shock protection with connected conductors, even when cross-connected.
• Terminals supplied with open clamping point. In addition, the misplugging safeguard prevents conductors from being inserted incorrectly
• Embossing on clamping yoke and current bar engage so that even the smallest conductors are reliably clamped; large conductors and also 2 conductors are gripped in the middle

Wemid insulating material
• Non-tracking, CTI 600
• Thermally stable up to 120 °C
• V0 flammability class to UL 94
• Halogen, cadmium and phosphor free

Common profiles
• Identical size from 2.5 to 10 mm²
• Minimum number of different accessories = lower costs and better logistics
• Easy planning

Standards and directives
The reliable contact and dependability of the Weidmüller systems are verified by:
• Type tests to IEC 60947-7-1/-2/-3
• National and international approvals
• A large portfolio of UL and CSA approvals
• W-Series certified for railway applications (see chapter on stud terminals)
• ATEX approval (see certificate on Weidmüller website)
• All materials checked for conformity with the latest environmental directives and RoHS requirements
• IECEx approved

Overview W-Series