Siemon’s patented Z-MAX 45 shielded Category 6A outlet offers a shorter, compact design and the ability to terminate cable at a 45-degree angle for easier exiting of cable from shallow back boxes or wall-mounted raceway systems, while maintaining proper bend radius of the cable. The Z-MAX 45 offers the same best-in-class performance you’ve come to expect from Siemon’s family of Z-MAX products, exceeding all Category 6A performance requirements, including alien crosstalk. The innovative linear lacing features and tool enable fast terminations, while removing installation variability for consistent, repeatable performance.

Multiple Cable Types
Z-MAX 45 Outlet terminates cable constructions with 22 – 26 AWG solid and stranded conductors

COMPLIANCE
- ANSI/TIA-568.2-D
- ISO/IEC 11801-1 Ed 1.0
- IEC-61156
- IEC 60603-7
- UL 2043 & UL 1863

APPLICATIONS SUPPORT
- 10BASE-T to 10GBASE-T
- IEEE 802.3af (Type 1)
- IEEE 802.3at (Type 2)
- IEEE 802.3bt (Type 3 and 4)
- Power over HDBaseT (PoH)

Configurable Termination Positions
Cable can be terminated to exit outlet at a 45-degree angle in two different directions to accommodate cables entering from the side, top or bottom in raceway or back boxes

High-Visibility Icon System
Provide designation for voice / data applications and color coding

Linear lacing channels and the tool’s color-coded guide ensured correct conductor placement and offers a best-in-class termination time and repeatable performance.

Shorter outlet body with 45-degree termination reduces depth by 40% compared to standard outlets to accommodate shallow back boxes without exceeding bend radius and the hybrid design supports both flat and angled mounting orientations.

Unlike 90-degree side entry outlets, the 45-degree angle of the Z-MAX 45 enables side stacking for high density applications, while the plastic bezels prevent contact between metal housings for superior alien crosstalk performance.

Linear Shielding Effectiveness
High level of shielded effectiveness exceeds ISO 360-degree shielded requirements via durable diecast housing and rear ground cap for enhanced support of high frequency data rates.
**Product Information**

## PERFORMANCE SPECIFICATIONS

### ELECTRICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Resistance</td>
<td>20 mΩ</td>
</tr>
<tr>
<td>Input to Output Resistance</td>
<td>200 mΩ (single conductors), 100mΩ (shield)</td>
</tr>
<tr>
<td>Min. Dielectric Withstand Voltage</td>
<td>1000 VAC contact to contact, 1500 VDC contact to shield</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>500 mΩ</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Backwards to Cat 5e and Cat 6</td>
</tr>
<tr>
<td>Current Rating</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Power over Ethernet</td>
<td>PoE Type 1,2,3,4 and PoH</td>
</tr>
</tbody>
</table>

### MECHANICAL - GENERAL

- Operating Temperature: -10 to 60 °C (14 to 140 °F)
- Flammability Rating: UL 94 V-0
- Green Features: RoHS, lead-free, halogen-free, PVC free
- Housing Material: Zinc die cast
- Contact Materials: Copper alloy, plated with 50 micro inches (1.27 micron) minimum thick gold or equivalent at contact interface
- Plastic Materials: Flame retardant thermoplastic
- Dimensions (LxWxH): 43.8 x 14.5 x 21.0mm (1.72 x 0.57 x 0.83 in.)
- Shield: 360 degree enclosure

Each Z-MAX hybrid flat/angled outlet includes a printed icon set with the following color/print options.

1. Red Data
2. Blue Data
3. Bezel Color-Matching Data
4. White Blank

### MECHANICAL - JACK

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Plug Insertion Cycles</td>
<td>2500</td>
</tr>
<tr>
<td>Minimum Plug Insertion Cycles</td>
<td>50N (11.24 lbf)</td>
</tr>
<tr>
<td>Plug Compatibility</td>
<td>Compatible with RJ45 (8-position) or RJ11 (6-position) plugs</td>
</tr>
</tbody>
</table>

### MECHANICAL - CABLE (STRANDED)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Size Range (nominal)</td>
<td>22-26 AWG solid and stranded</td>
</tr>
<tr>
<td>Wire Insulation Diameter Range (max)</td>
<td>1.60mm (0.063 in.)</td>
</tr>
<tr>
<td>Conductor OD Size (max)</td>
<td>0.65mm (0.026 in.)</td>
</tr>
<tr>
<td>Cable OD (max)</td>
<td>9mm (0.354 in.)</td>
</tr>
<tr>
<td>Reterrinations</td>
<td>5</td>
</tr>
<tr>
<td>Wiring</td>
<td>T568A/B</td>
</tr>
</tbody>
</table>

### Ordering Information

**ZTOOL-45 - Z-MAX 45 Termination Tool**

**Z6A-45-S(X)(XX)(X) - Z-MAX 45 6A shielded outlet, T568A/B**

**Mounting Style**

- **[Blank]** = Hybrid Flat/Angled
- **K** = Keystone

**Door Option**

- **[Blank]** = No Door
- **D** = Door (Hybrid only)

**Bezel Color**

- **01** = Black
- **06** = Blue
- **02** = White
- **07** = Green
- **03** = Red
- **09** = Orange
- **04** = Gray
- **20** = Ivory
- **05** = Yellow
- **88** = Light Ivory

**Note:** Keystone version is designed for integration with various third party mounting products and is not compatible with standard Siemon MAX mounting products. Keystone versions are also not compatible with icons and do not have door options.

Add “B” to end of part number for bulk project pack of 100 modules. Z-Tool-45 Termination Tool is included with quantities of 50 or more outlets or with any of bulk (B) order

Spring door option minimizes exposure to dust and other contaminants.

---

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

### Contact Information

**North America**

- P: (1) 860 945 4200

**Asia Pacific**

- P: (61) 2 8977 7500

**Latin America**

- P: (571) 657 1950/51/52

**Europe**

- P: (44) 0 1932 571771

**China**

- P: (86) 215385 0303

**India, Middle East & Africa**

- P: (971) 4 3689743

**Mexico**

- P: (521) 556 387 7708/09/10

**Siemon Interconnect Solutions**

- P: (1) 860 945 4213

- www.siemon.com/SIS

---

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

---

Spring door option minimizes exposure to dust and other contaminants.