Modular Jack Connector WR-MJ
Modular Jack Connector WR-MJ

Würth Elektronik is a leader for filtered connectivity solutions thanks to WE Midcom Inc. USA it’s US branch office, well known for Modular Jack with transformer. After primarily focused on RJ with magnetic Würth Elektronik decided to offer a wide range of non filtered Modular Jack too. This range consists in single or multi-port jacks, stacked or not, with possible LEDs (eventually bipolar), in surface mount or through hole pc board mount, shielded or unshielded.

<table>
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<tr>
<th>Performance level</th>
<th>Test Description</th>
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<tr>
<td>3</td>
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<tr>
<td>2</td>
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</tr>
<tr>
<td>1</td>
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xPyC means x Poles/y Contacts
ex: 6P4C means 6Poles/4Contacts
## Modular Jack Connector WR-MJ

<table>
<thead>
<tr>
<th>NEW</th>
<th>Description</th>
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<tbody>
<tr>
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<td>Horizontal Shielded Modular Jack</td>
<td>12-5 to 12-18</td>
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<tr>
<td>NEW</td>
<td>Horizontal Half Shielded Modular Jack</td>
<td>12-19 &amp; 12-20</td>
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<td>NEW</td>
<td>Horizontal Plastic Modular Jack</td>
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<td>Vertical Shielded Modular Jack</td>
<td>12-30 to 12-32</td>
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<td>12-33 to 12-38</td>
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<td>NEW</td>
<td>Design Kit</td>
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**Würth Elektronik** has understood the requirements of design engineers offering also ESD and EMI suppression parts for its communication connectors. In the EMC labs customers are often faced with unsatisfied protection of its designs due to the rigorous tests against ESD and EMI.

**Related Products**

- **Recommended parts for LAN transforming**
  - LAN Transformer 10/100 BaseT WE-LAN e.g. 749 010 012
  - LAN Transformer Gigabit WE-LAN e.g. 749 020 010

- **Recommended parts for EMI suppression**
  - Chip Bead Ferrites WE-CBF e.g. 742 792 040 with 600Ohm in size 0805
  - Common Mode Chokes WE-CNSW e.g. 744 232 222 with 2200Ohm

- **Recommended parts for ESD suppression**
  - ESD Suppressor WE-VE “ULC” e.g. 823 07 050 029 with 0.2pF in size 0402
  - TVS Diodes WE-TVS e.g. 824 015 with 4 I/O lines + VDD protection
Modular Jack Connector WR-MJ

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<th>Entrance</th>
<th>Shielding</th>
<th>Port</th>
<th>TH/SMT</th>
<th>LED</th>
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| Vertical |
|          | Plastic | 1x1  | THT    | No  | No   |    | 8P8C Up | 615 008 142 521 | 12-39 |
|          |         |      |        |     |      |    | 8P8C Up | 615 008 142 621 | 12-39 |

| 45°      |
|          | Plastic | 1x1  | THT    | No  | No   |    | 8P8C Up | 615 001 | 12-40 |

**NEW**
Horizontal Shielded 6P6C Modular Jack Tab Up
WR-MJ

MATERIAL
- Insulator material: PBT
  UL94-V0
- Colour: Black
- Contact material: Copper alloy
  Stamped
  Gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

ENVIRONMENTAL
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

ELECTRICAL
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

SOLDERING
- Solder temperature: JEDEC lead free wave soldering

PACKAGING
- Tray

<table>
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<tr>
<th>Order Code</th>
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<tbody>
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<td>615 006 143 221</td>
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<td>Modular Jack Horizontal Shielded Tab Up</td>
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</table>
Horizontal Shielded 8P8C Modular Jack Tab Down WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: -25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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Horizontal Shielded 8P8C Modular Jack Tab Down WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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Horizontal Shielded 3.05mm Rear Grounding Post 8P8C Modular Jack Tab Down WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<td>Modular Jack Horizontal Shielded 3.05 mm Rear Grounding Post Tab Down</td>
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Horizontal Shielded with EMI Panel Finger 8P8C Modular Jack Tab Up WR-MJ

MATERIAL
- Insulator material: PBT
  UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

ENVIRONMENTAL
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

ELECTRICAL
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

SOLDERING
- Solder temperature: JEDEC lead free wave soldering

PACKAGING
- Tray

Order Code | Pins | Description
--- | --- | ---
615 008 140 621 | 8P8C | Modular Jack Horizontal Shielded With EMI Panel Finger Tab Up
## Horizontal Shielded with LED and EMI Panel Finger
### 8P8C Modular Jack Tab Up WR-MJ

- **MATERIAL**
  - Insulator material: PBT UL94-V0
  - Colour: Black
  - Contact material: Copper alloy
  - Contact type: Stamped
  - Contact plating: Selective gold
  - Shielding: Bronze Ni Plated
  - Quality class: 500 mating cycles

- **ENVIRONMENTAL**
  - Operating temperature: -25 °C up to 85 °C
  - Compliance: Lead free and RoHS

- **ELECTRICAL**
  - Current rating: 1.5 A
  - Working voltage: 120 Vac
  - Insulation resistance: >500 MOhm
  - Dielectric withstanding voltage: 1,000 Vac/mn
  - Contact resistance: 20 mOhm max
  - System application: CAT 5 Compatible

- **SOLDERING**
  - Solder temperature: JEDEC lead free wave soldering

- **PACKAGING**
  - Tray

### Technical Specifications

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<th>LED Colour Status</th>
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<td>Yellow</td>
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<td>8P8C</td>
<td>Bipolar Y/G</td>
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Horizontal Shielded SMT with LED and EMI Panel
Finger 8P8C Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: Nylon 6T
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1000 Vac/min
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free reflow soldering

**PACKAGING**
- Tape & Reel

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Horizontal Shielded Dual Port 8P8C Modular Jack Tab Down WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

### Characteristics

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Horizontal Shielded Dual Port with LED and EMI Panel Finger 8P8C Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<th>Order Code</th>
<th>Pins</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>615 016 137 721</td>
<td>2 x 8P8C</td>
<td>2 x Modular Jack Horizontal Shielded with LED 1 (Green) / LED 2 (Yellow) &amp; EMI Panel Fingers</td>
</tr>
</tbody>
</table>
# Horizontal Shielded Ganged 4 Ports 8P8C Modular Jack Tab Down WR-MJ

**Order Code**: 615 032 137 821  
**Pins**: 4 x 8P8C  
**Description**: 4 x Modular Jack Horizontal Shielded Tab Down

**MATERIAL**
- Insulator material: PBT  
- Flammability rating: UL94-V0  
- Colour: Black  
- Contact material: Copper alloy  
- Contact type: Stamped  
- Contact plating: Selective gold  
- Shielding: Bronze Ni Plated  
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C  
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A  
- Working voltage: 120 Vac  
- Insulation resistance: >500 MOhm  
- Dielectric withstanding voltage: 1 000 Vac/mn  
- Contact resistance: 20 mOhm max  
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

---

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Pins</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>615 032 137 821</td>
<td>4 x 8P8C</td>
<td>4 x Modular Jack Horizontal Shielded Tab Down</td>
</tr>
</tbody>
</table>
Horizontal Shielded Ganged 4 Ports with LED & EMI Panel Finger 8P8C Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Pins</th>
<th>LED 1</th>
<th>LED 2</th>
<th>LED Colour Status</th>
<th>Description</th>
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<tbody>
<tr>
<td>615 032 137 921</td>
<td>4 x 8P8C</td>
<td>Green</td>
<td>Yellow</td>
<td>-</td>
<td>4 x M.Jack Horizontal Shielded with LED &amp; EMI Panel Finger</td>
</tr>
</tbody>
</table>
Horizontal Shielded Dual Stacked Port with EMI Panel Finger 8P8C Modular Jack Tab Up & Down WR-MJ

MATERIAL
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

ENVIRONMENTAL
- Operating temperature: -25 °C up to 85 °C
- Compliance: Lead free and RoHS

ELECTRICAL
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

SOLDERING
- Solder temperature: JEDEC lead free wave soldering

PACKAGING
- Tray

Order Code | Pins | Description
--- | --- | ---
615 016 240 521 | 2 x 8P8C | Modular Jack Horizontal Dual Stacked Port Shielded with EMI Panel Finger Tab Up & Down
Horizontal Shielded 2 x Dual Stacked Port with EMI Panel Finger 8P8C M. Jack Tab Up & Down WR-MJ

Order Code: 615 032 243 321
Pins: 2 x 2 x 8P8C
Description: Modular Jack Horizontal 2 x Dual Stacked Port Shielded with EMI Panel Finger Tab Up & Down

**MATERIAL**
- Insulator material: PBT / PA66
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Shielding: Gold
- Quality class: Bronze Ni Plated
- 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray
Horizontal Shielded 2 x 4 Stacked Port with EMI Panel Finger 8P8C Modular Jack Tab Up & Down WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<th>Description</th>
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<tbody>
<tr>
<td>615 064 243 321</td>
<td>2 x 4 x 8P8C</td>
<td>Modular Jack Horizontal 2 x Four Stacked Port Shielded with EMI Panel Finger Tab Up &amp; Down</td>
</tr>
</tbody>
</table>
Horizontal 6P6C Half Shielded Modular Jack Tab Down WR-MJ

**Characteristics**

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MΩ
- Dielectric withstand voltage: 1 000 Vac/min
- Contact resistance: 20 mΩ max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<table>
<thead>
<tr>
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<th>Pins</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>615 006 143 421</td>
<td>6P6C</td>
<td>Modular Jack Horizontal Half Shielded Tab Down</td>
</tr>
</tbody>
</table>

09/08
**Horizontal Half Shielded 8P8C Modular Jack Tab Down WR-MJ**

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
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<tr>
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<tbody>
<tr>
<td>615 008 143 521</td>
<td>8P8C</td>
<td>Modular Jack Horizontal Half Shielded Tab Down</td>
</tr>
</tbody>
</table>
Horizontal Plastic 6P6C Modular Jack Tab Down
WR-MJ

- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

- Solder temperature: JEDEC lead free wave soldering

- Tray

**MATERIAL**

**ELECTRICAL**

**SOLDERING**

**PACKAGING**
MATERIAL
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

ENVIRONMENTAL
- Operating temperature: -25 °C up to 85 °C
- Compliance: Lead free and RoHS

ELECTRICAL
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/min
- Contact resistance: 20 mOhm max

SOLDERING
- Solder temperature: JEDEC lead free wave soldering

PACKAGING
- Tray

---

**Order Code | Pins | Description**

| 615 008 143 721 | 8P8C | Modular Jack Horizontal Plastic Tab Down |
Horizontal Plastic 6PxC Modular Jack Tab Down
WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<tr>
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<tbody>
<tr>
<td>615 004 141 121</td>
<td>6P4C</td>
<td>Modular Jack Horizontal Plastic Tab Down</td>
</tr>
<tr>
<td>615 006 141 121</td>
<td>6P6C</td>
<td>Modular Jack Horizontal Plastic Tab Down</td>
</tr>
</tbody>
</table>
Horizontal Plastic 6PxC Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
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<tbody>
<tr>
<td>615 002 138 421</td>
<td>6P2C</td>
<td>Modular Jack Horizontal Plastic Tab Up</td>
</tr>
<tr>
<td>615 004 138 421</td>
<td>6P4C</td>
<td>Modular Jack Horizontal Plastic Tab Up</td>
</tr>
<tr>
<td>615 006 138 421</td>
<td>6P6C</td>
<td>Modular Jack Horizontal Plastic Tab Up</td>
</tr>
</tbody>
</table>
Horizontal Plastic 4P4C Modular Jack Tab Up
WR-MJ

<table>
<thead>
<tr>
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<th>Pins</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>615 004 143 821</td>
<td>4P4C</td>
<td>Modular Jack Horizontal Plastic Tab Up</td>
</tr>
</tbody>
</table>
Horizontal Plastic 8P8C Modular Jack Tab Down
WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray
Horizontal Plastic SMT 8P8C Modular Jack Tab Down WR-MJ

**MATERIAL**
- Insulator material: PA46
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1000 Vac/mm
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free reflow soldering

**PACKAGING**
- Tray

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<table>
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<tr>
<th>Order Code</th>
<th>Pins</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>634 008 137 221</td>
<td>8P8C</td>
<td>SMT Horizontal Plastic Modular Jack Tab Down</td>
</tr>
</tbody>
</table>
Horizontal Plastic Dual Port 6P6C Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
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<th>Pins</th>
<th>Description</th>
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<tbody>
<tr>
<td>615 012 143 921</td>
<td>2 x 6P6C</td>
<td>Plastic Horizontal Dual Port Modular Jack Tab Up</td>
</tr>
</tbody>
</table>
Horizontal Plastic 4 Port 6P6C Modular Jack Tab Up WR-MJ

**MATERIAL**
- Insulator material: PBT
- UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
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<th>Pins</th>
<th>Description</th>
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<tr>
<td>615 024 143 921</td>
<td>4 x 6P6C</td>
<td>Plastic Horizontal Four Port Modular Jack Tab Up</td>
</tr>
</tbody>
</table>
**Vertical Shielded 8P8C Front Post Modular Jack WR-MJ**

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: -25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

---

**Order Code**  | **Pins** | **Description**  
--- | --- | ---  
615 008 138 221 | 8P8C | Shielded Vertical Modular Jack
Vertical Shielded 8P8C Rear Post Modular Jack
WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

---

**Order Code | Pins | Description**
---
615 008 140 421 | 8P8C | Shielded Vertical Modular Jack
Vertical Shielded with LED 8P8C Modular Jack
WR-MJ

MATERIAL
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

ENVIRONMENTAL
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

ELECTRICAL
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/min
- Contact resistance: 20 mOhm max
- System application: CAT 5 Compatible

SOLDERING
- Solder temperature: JEDEC lead free wave soldering

PACKAGING
- Tray

Order Code | Pins | LED 1 | LED 2 | LED Colour Status | Description
---|---|---|---|---|---
615 008 138 321 | 8P8C | Green | Yellow | - | Vertical Shielded Modular Jack
Vertical Plastic 6P6C Modular Jack with Ears
WR-MJ

MATERIAL
• Insulator material: PBT
• Flammability rating: UL94-V0
• Colour: Black
• Contact material: Copper alloy
• Contact type: Stamped
• Contact plating: Selective gold
• Quality class: 500 mating cycles

ENVIRONMENTAL
• Operating temperature: –25 °C up to 85 °C
• Compliance: Lead free and RoHS

ELECTRICAL
• Current rating: 1.5 A
• Working voltage: 120 Vac
• Insulation resistance: >500 MOhm
• Dielectric withstanding voltage: 1 000 Vac/mn
• Contact resistance: 20 mOhm max

SOLDERING
• Solder temperature: JEDEC lead free wave soldering

PACKAGING
• Tray

Order Code | Pins | Description
---|---|---
615 006 138 521 | 6P6C | Vertical Plastic Modular Jack
Vertical Plastic 4P4C Modular Jack with Ears
WR-MJ

MATERIAL
• Insulator material: PBT
• Flammability rating: UL94-V0
• Colour: Black
• Contact material: Copper alloy
• Contact type: Stamped
• Contact plating: Selective gold
• Quality class: 500 mating cycles

ENVIRONMENTAL
• Operating temperature: –25 °C up to 85 °C
• Compliance: Lead free and RoHS

ELECTRICAL
• Current rating: 1.5 A
• Working voltage: 120 Vac
• Insulation resistance: >500 MOhm
• Dielectric withstanding voltage: 1 000 Vac/mm
• Contact resistance: 20 mOhm max

SOLDERING
• Solder temperature: JEDEC lead free wave soldering

PACKAGING
• Tray

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<tr>
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<tbody>
<tr>
<td>615 004 144 021</td>
<td>4P4C</td>
<td>Vertical Plastic Modular Jack</td>
</tr>
</tbody>
</table>
Vertical Plastic 6PxM Modular Jack with Ears
WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

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<tr>
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<td>6P4C</td>
<td>Vertical Plastic Modular Jack</td>
</tr>
<tr>
<td>615 006 144 121</td>
<td>6P6C</td>
<td>Vertical Plastic Modular Jack</td>
</tr>
</tbody>
</table>
Vertical Plastic 8P8C Modular Jack with Ears
WR-MJ

MATERIAL
• Insulator material: PBT
  UL94-V0
• Colour: Black
• Contact material: Copper alloy
  Stamped
• Contact plating: Selective gold
  500 mating cycles

ENVIRONMENTAL
• Operating temperature: -25 °C up to 85 °C
• Compliance: Lead free and RoHS

ELECTRICAL
• Current rating: 1.5 A
• Working voltage: 120 Vac
• Insulation resistance: >500 MOhm
• Dielectric withstanding voltage: 1000 Vac/mn
• Contact resistance: 20 mOhm max

SOLDERING
• Solder temperature: JEDEC lead free wave soldering

PACKAGING
• Tray

Order Code  | Pins  | Description
-----------|-------|----------------
615 008 144 221 | 8P8C | Vertical Plastic Modular Jack
Vertical Plastic 8P8C Modular Jack WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

**Order Code** | **Pins** | **Description**
---|---|---
615 008 138 021 | 8P8C | Vertical Plastic Modular Jack
Vertical Plastic 8P8C SMT Modular Jack WR-MJ

**MATERIAL**
- Insulator material: PA46
- Flammability rating: UL94-V0
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free reflow soldering

**PACKAGING**
- Tray
45° Plastic 8P8C Modular Jack WR-MJ

**MATERIAL**
- Insulator material: PBT
- Flammability rating: UL94-V0
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 500 mating cycles

**ENVIRONMENTAL**
- Operating temperature: –25 °C up to 85 °C
- Compliance: Lead free and RoHS

**ELECTRICAL**
- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >500 MOhm
- Dielectric withstanding voltage: 1 000 Vac/mn
- Contact resistance: 20 mOhm max

**SOLDERING**
- Solder temperature: JEDEC lead free wave soldering

**PACKAGING**
- Tray

<table>
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<th>Order Code</th>
<th>Pins</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>615 008 142 521</td>
<td>8P8C</td>
<td>45° Plastic Modular Jack</td>
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</table>
Modular Jack & Communication Connector Design Kit

Order Code 615 001
Design Kit WR-MJ
All the parts of the assortment are detailed below

Note: Modular Jack design kit is the same that WR-COM chapter. WR-COM see chapter 11
# Modular Jack & Communication Connector Design Kit

<table>
<thead>
<tr>
<th>P/N in the Kit</th>
<th>Pins</th>
<th>Description</th>
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<tbody>
<tr>
<td>614 004 160 21</td>
<td>4</td>
<td>USB Type A Receptacle Horizontal Single THT</td>
</tr>
<tr>
<td>614 008 260 21</td>
<td>2 x 4</td>
<td>USB Type A Receptacle Horizontal Dual THT</td>
</tr>
<tr>
<td>615 016 338 621</td>
<td>[2 x 4] + 8</td>
<td>USB Type A Shielded Receptacle Horizontal Triple THT + RJ45 With LED</td>
</tr>
<tr>
<td>614 004 134 726</td>
<td>4</td>
<td>USB Type A Receptacle Up right Single THT</td>
</tr>
<tr>
<td>614 004 135 023</td>
<td>4</td>
<td>USB Type A Receptacle Vertical Single THT</td>
</tr>
<tr>
<td>614 008 235 023</td>
<td>2 x 4</td>
<td>USB Type A Receptacle Vertical Dual THT</td>
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<tr>
<td>629 004 160 21</td>
<td>4</td>
<td>USB Type A Receptacle Horizontal Single SMT</td>
</tr>
<tr>
<td>629 004 113 921</td>
<td>4</td>
<td>USB Type A Plug Horizontal Single SMT</td>
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<tr>
<td>614 004 161 21</td>
<td>4</td>
<td>USB Type B Receptacle Horizontal Single THT</td>
</tr>
<tr>
<td>629 104 161 21</td>
<td>4</td>
<td>USB Type B Receptacle Horizontal Single SMT</td>
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<tr>
<td>614 004 133 21</td>
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<td>USB Type B Receptacle Vertical Single THT</td>
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<tr>
<td>651 005 136 521</td>
<td>5</td>
<td>Mini USB Type B Receptacle Horizontal Single THT</td>
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<tr>
<td>651 005 161 21</td>
<td>5</td>
<td>Mini USB Type B Receptacle Horizontal Single SMT</td>
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<td>651 005 136 421</td>
<td>5</td>
<td>Mini USB Type B Receptacle Vertical Single THT</td>
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<tr>
<td>629 105 136 821</td>
<td>5</td>
<td>Micro USB Type B Receptacle Horizontal Single SMT With peg</td>
</tr>
<tr>
<td>631 0xx 112 021</td>
<td>3 to 8</td>
<td>Mini DIN Shielded Receptacle Horizontal Single Black</td>
</tr>
<tr>
<td>631 006 136 x21</td>
<td>6</td>
<td>Mini DIN Shielded Receptacle Horizontal Single Green or Purple</td>
</tr>
<tr>
<td>631 012 212 021</td>
<td>2 x 5</td>
<td>Mini DIN Shielded Receptacle Horizontal Dual Green &amp; Purple</td>
</tr>
<tr>
<td>631 0xx 110 21</td>
<td>3 to 8</td>
<td>Mini DIN Unshielded Receptacle Horizontal Single Black</td>
</tr>
<tr>
<td>685 119 134 923</td>
<td>19</td>
<td>HDMI Shielded Receptacle Horizontal SMT</td>
</tr>
<tr>
<td>685 119 135 725</td>
<td>19</td>
<td>HDMI Shielded Receptacle Horizontal SMT With screw</td>
</tr>
<tr>
<td>685 119 136 923</td>
<td>19</td>
<td>Mini HDMI Shielded Receptacle Horizontal SMT</td>
</tr>
<tr>
<td>675 024 321 221</td>
<td>24 + 1</td>
<td>DVI Shielded Receptacle Horizontal Digital THT With screw</td>
</tr>
<tr>
<td>675 024 321 321</td>
<td>24 +5</td>
<td>DVI Shielded Receptacle Horizontal Analogic &amp; digital THT With screw</td>
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</tbody>
</table>

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<thead>
<tr>
<th>P/N in the Kit</th>
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<th>Description</th>
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<tbody>
<tr>
<td>615 008 137 121</td>
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<td>RJ45 Unshielded Receptacle Horizontal Single THT</td>
</tr>
<tr>
<td>634 008 137 221</td>
<td>8</td>
<td>RJ45 Unshielded Receptacle Horizontal Single SMT</td>
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<tr>
<td>615 008 142 21</td>
<td>8</td>
<td>RJ45 Shielded Receptacle Horizontal Single THT</td>
</tr>
<tr>
<td>615 008 137 421</td>
<td>8</td>
<td>RJ45 Shielded Receptacle Horizontal Single THT EMI + LED</td>
</tr>
<tr>
<td>634 008 137 521</td>
<td>8</td>
<td>RJ45 Shielded Receptacle Horizontal Single SMT EMI + LED</td>
</tr>
<tr>
<td>615 016 137 621</td>
<td>2 x 8</td>
<td>RJ45 Shielded Receptacle Horizontal Double THT</td>
</tr>
<tr>
<td>615 016 137 721</td>
<td>2 x 8</td>
<td>RJ45 Shielded Receptacle Horizontal Double THT EMI + LED</td>
</tr>
<tr>
<td>615 032 137 821</td>
<td>4 x 8</td>
<td>RJ45 Shielded Receptacle Horizontal Four THT</td>
</tr>
<tr>
<td>615 032 137 921</td>
<td>4 x 8</td>
<td>RJ45 Shielded Receptacle Horizontal Four THT EMI + LED</td>
</tr>
<tr>
<td>615 008 138 021</td>
<td>8</td>
<td>RJ45 Unshielded Receptacle Vertical Single THT</td>
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<tr>
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<td>RJ45 Unshielded Receptacle Vertical Single SMT</td>
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<tr>
<td>615 008 138 221</td>
<td>8</td>
<td>RJ45 Shielded Receptacle Vertical Single THT</td>
</tr>
<tr>
<td>615 008 138 321</td>
<td>8</td>
<td>RJ45 Shielded Receptacle Vertical Single THT EMI + LED</td>
</tr>
<tr>
<td>615 006 138 421</td>
<td>6</td>
<td>RJ11 Unshielded Receptacle Horizontal Single THT Tab Up</td>
</tr>
<tr>
<td>615 006 138 521</td>
<td>6</td>
<td>RJ11 Unshielded Receptacle Vertical Single THT</td>
</tr>
</tbody>
</table>
Notes:

**Würth Elektronik** has understood the requirements of design engineers offering also ESD and EMI suppression parts for its communication connectors. In the EMC labs customers are often faced with unsatisfied protection of its designs due to the rigorous tests against ESD and EMI.

**Related Products**

- **Recommended parts for LAN transforming**
  - LAN Transformer 10/100 BaseT WE-LAN e.g. 749 010 012
  - LAN Transformer Gigabit WE-LAN e.g. 749 020 010

- **Recommended parts for EMI suppression**
  - Chip Bead Ferrites WE-CBF e.g. 742 792 040 with 600Ohm in size 0805
  - Common Mode Chokes WE-CNSW e.g. 744 232 222 with 2200Ohm

- **Recommended parts for ESD suppression**
  - ESD Suppressor WE-VE "ULC" e.g. 823 07 050 029 with 0.2pF in size 0402
  - TVS Diodes WE-TVS e.g. 824 015 with 4 I/O lines + VDD protection