Tougher Plugs for a Safer Workplace
Clipsal’s 56 Series range of plugs and connectors has a proud history for being the toughest and most trusted industrial switchgear on the Australian market.

This legacy continues with Clipsal’s improved and extended range of single-phase, three-phase, size 1 and size 2 plugs and socket connectors.

Like all Clipsal Industrial Switchgear, they are manufactured with premium quality materials, tested to the highest standards and designed for easier, faster connection.

Designed and developed in conjunction with practising electrical contractors, as well as dozens of end-use site visits reviewing usage and user requirements.

**Standards**

Pin configurations for plugs, sockets and switched socket outlets comply with three-phase AS/NZS3123, single-phase AS/NZS3112, and switches with appropriate sections of AS/NZS3133.

**Built Tough to Last**

The plastics used to manufacture the 56 Series range are superior quality industrial grade resins with outstanding high impact strength, UV protection and chemical resistance.
56 Series Plugs and Connectors

As Australia’s leader in industrial switchgear for more than 30 years, you can be confident Clipsal’s 56 Series won’t let you down when the going gets tough.

The 56 Series offers unrivalled flexibility – from modular enclosures, straight and angled plugs, and the ability to multi-gang up to 16 products.

When you need industrial plugs or socket connectors, look no further than Clipsal’s full range of 56 Series single-phase and three-phase, size 1 or size 2 plugs and socket connectors.

When it comes to quality and reliability, Clipsal’s 56 Series sets the standard for performance and durability.

**Designed to Mix and Match**

What suits one industry might not be the perfect match for another. That’s why the 56 Series has been specifically designed to mix and match. There is an extensive choice of modules available, including switches, sockets, photo-electrical cells and residual current devices.

---

**Transparent Plastic Materials**

The introduction of transparent materials to the popular 56 Series Electric Orange and Grey range enables the inspection and checking of the component’s pin/socket configuration and wiring at a glance, while still providing protection against the elements.

**Colour Options**

- Chemical Resistant Orange (RO)
- Electric Orange (EO)
- Chemical Resistant White (RW)
- Grey (GY)
For applications that require small loading, Clipsal offers a range of single-phase plugs in voltage ranges from 32V to 250V, and amperages from 10A to 20A.

Design improvements to Clipsal’s 56 Series 250V single-phase plugs include:

- Clean product lines that minimise food and waste build-up, offering superior hygiene standards; ideal for the food industry.
- An M20 rear thread and standard external components allow for cable connection flexibility and simplified maintenance.
- Innovative hinged cord clamp swings out of the way during termination, with the added convenience of a single captive screw to tighten the clamp.

10A, 15A, 20A
32V - 250V

Quality Materials
Engineered from quality materials to sustain performance in harsh industrial environments.

IP66 Dust and Water Protection
- Completly protected against dust.
- Protected against jets of water of similar force to heavy seas.
PLUGS

Features and Benefits

- IP66 rated.
- Transparent, orange or white body options.
- Designed for the food industry. Clean lines minimise areas where food or waste can build-up.
- M20 rear thread on small frame size plug-tops, allows for flexibility in cable connection.
- Small frame size plug-tops all share the same external components, allowing for simplified maintenance and minimal downtime when replacement products are required.
- All plugs feature the reliability of a cord clamp and the convenience of rear cable entry for terminals.
- Manufactured with high-quality plastic resins for superior impact and UV resistance.
- Premium quality stainless steel and brass internal mechanisms ensure reliable operation in harsh conditions.

UV Resistance
Performs under Australian conditions. Temperature resistance -25°C to 75°C.

Traditional Assembly
A latching spring allows for speed, simplicity, product strength and improved reliability.
Single-Phase Plugs

Quality materials for tough conditions

Superior Materials
The plastics used to manufacture the 56 Series range are superior quality industrial grade resins with outstanding high-impact strength, UV protection and chemical resistance.

Note: EO and GY products are supplied with clear plug and socket bodies for easy inspection of terminals. RO and RW products are solid in colour and designed to guard against a vast range of the chemicals used in industry.

STANDARD COLOURS
- Chemical Resistant Orange (RO)
- Electric Orange - transparent body (EO)
- Chemical Resistant White (RW)
- Grey - transparent body (GY)
Single-Phase Plugs

All cable entries are in the rear of the pin assembly – no difficult path needs to be negotiated.

Innovative cord clamp is hinged to swing out of the way during termination.

Dimensions (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20</td>
<td>20</td>
</tr>
<tr>
<td>M30</td>
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<tr>
<td>M112.5</td>
<td>67</td>
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<tr>
<td>M1</td>
<td>20</td>
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PLUG CONFIGURATIONS

| A | 10A 250V | 56P310 | 56SP310 |
| A | 15A 250V | 56P315 | 56SP315 |
| A | 20A 250V | 56P320F | 56SP320F |
| B | 10A 125V | 56P210 |
| B | 15A 32V | Extra Low Voltage | 56P215/32 |
| C | 10A 250V | 56P310SL |
| C | 10A 250V | 56P310RP |
| C | 10A 110V | 56P310 |
| C | 10A 110V | 56P310RP |

by Schneider Electric
Clipsal 56 Series Size 1 Plugs are designed smarter, so you can work faster.

Provided predominantly in three-phase 500V voltage ranges, the size 1 single-phase plugs also have options in 250V and amperages from 10A to 20A.

Our Quick Connect terminals are 50% faster to use, the snap-shut body design means screwless assembly, and Mactro™ Technology provides a revolutionary cord clamp and cable system all in one, with no need to remove the cable nut.

Alternatively, if traditional terminals are preferred, the Size 1 plugs are also designed with screw-fix terminals.

Mactro™ Technology
A revolutionary cord clamp and cable seal system all in one. No need to remove the cable nut.

- Faster
- Stronger
- Fewer parts
- Reliable
- Patented

Note: Mactro™ technology is also available in size 2 plugs and socket connectors.
Size 1 Plugs

Features and Benefits

- Available in 10A, 16A and 20A versions.
- Suitable for small three-phase loads.
- Quick Connect termination available.
- IP66 rating.
- Better cable entry set-up negates the need for ‘onion ring’ sealing.
- Screwless assembly utilises latching spring and allows for speed, simplicity, strength and improved reliability.
- Stronger cord clamp and body sleeve connection.
- Wider lock-ring is easier to unscrew from sockets.
- Four colour options.
- Manufactured with high-quality plastic resin for superior impact and UV resistance.
- Premium grade stainless steel and brass internal mechanisms ensure reliable operation in harsh conditions.

Secure cable seal.
56 Series
IP66 Plugs and Socket Connectors

Size 1 Plugs

Quality materials for tough conditions

Quick Connect Option

Clipsal’s Quick Connect Terminals are 50% faster because they are designed to secure terminated wires under spring tension. Compared with traditional screw-in terminals, the Quick Connect design secures cables far more reliably.

The innovative new 56 Series Plugs not only perform better, but will save you valuable time and in turn increase your business profit. Clipsal has pioneered Quick Connect installations through the widely accepted 413QC Surface Sockets. Quick Connect technology is also available in 56 Series Plugs and Socket Connectors.

Clipsal’s size 1 plugs are provided with traditional screws or Quick Connect terminal options.

To terminate:
1. push driver into slot to open terminal
2. insert stripped, untwisted cable into terminal
3. release driver from slot.

To release:
1. push driver into slot to open terminal
2. pull out cable.

Available in the following products
- 56P320QC
- 56P410QC
- 56P420QC
- 56P510QC
- 56P520QC.

STANDARD COLOURS

- Chemical Resistant Orange (RO)
- Electric Orange - transparent body (EO)
- Chemical Resistant White (RW)
- Grey - transparent body (GY)
Size 1 Plugs

**Ergonomic handle promotes correct plug use.**

**Transparent sleeve to aid visibility and assist pin location.**

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>56P320 - 56P720</th>
<th>56PA320 - 56PA720</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td>78 63</td>
<td>78 53</td>
</tr>
<tr>
<td>20 167</td>
<td>20 158</td>
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</table>

**PLUG CONFIGURATIONS**

<table>
<thead>
<tr>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>V</th>
<th>W</th>
<th>X</th>
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</thead>
<tbody>
<tr>
<td>10A 500V 56P410 56P410QC 56PA410 56CSC410 56PO410</td>
<td>20A 250V 56P320 56P320QC 56PA320 56CSC320</td>
<td>20A 500V 56P420 56P420QC 56PA420 56CSC420 56PO420</td>
<td>16A 500V Unique 56P416K 56PA416K</td>
<td>10A 500V 56P510 56P510QC 56PA510 56CSC510 56POS10</td>
<td>20A 500V 56P520 56P520QC 56PA520 56CSC520 56POS20</td>
<td>10A 500V 56P610 56PA610</td>
<td>10A 500V 56P710 56PA710</td>
<td>20A 500V 56P720 56PA720</td>
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</table>

**Dimensions (mm):**

- **56P320 - 56P720**
  - 78 63
  - 20 167

- **56PA320 - 56PA720**
  - 78 53
  - 20 158
Available in 32A, 40A and 50A options, suitable for medium to large loads and with an IP66 rating, Clipsal 56 Series Size 2 Plugs are designed smarter, so you can work faster.

As you would expect, Clipsal provide size 2 plugs with robust 500V capabilities, and 32A versions have both 250V and 500V options.

Clipsal’s new 56 Series size 2 plugs have undergone a design upgrade. Following the successful acceptance of the size 1 plug re-design, size 2 plugs are now faster and simpler to use.

The Snap-Shut body design means screwless assembly, and Mactro™ Technology provides a revolutionary cord clamp and cable system all in one, with no need to remove the cable nut.

Add to this the provision of two cable seals to provide flexibility for small and large cables, and Clipsal 56 Series is by far the most superior switchgear available.
Size 2 Plugs

Features and Benefits
- Available in 32A, 40A and 50A options.
- Suitable for medium to large three-phase loads.
- IP66 rating.
- Better cable entry set-up negates the need for ‘onion ring’ sealing.
- Small and large cable seals provided to suit a wide range of cable dimensions.
- Screw-less assembly utilises latching spring and allows for speed, simplicity, strength and improved reliability.
- Stronger cord clamp and body sleeve connection.
- Wider lock-ring is easier to unscrew from sockets (ideal for operating while wearing protective gloves).
- Three colour options.
- Manufactured with high-quality plastic resin for superior impact and UV resistance.
- Premium grade stainless steel and brass internal mechanisms ensure reliable operation in harsh conditions.

Mactro™

G M A C T R O T E C H N O L O G Y

Locknut.

32A to 50A.

Small cable seal.

Large cable seal.
Size 2 Plugs - improve performance

Laser printed markings.
Clean lines minimise dirt build-up.
Cable clamp removed, easier access to terminals.
Clean lines minimise dirt build-up.
Better grip for users. Ideal when wearing gloves.
Suits plug and socket cap attachments, e.g. 56PCI.
Longer lock-ring, easier access and operation.
Improved plug shape.
Clean lines minimise dirt build-up.

STANDARD COLOURS

- Chemical Resistant Orange (RO)
- Electric Orange - transparent body (EO)
- Grey - transparent body (GY)
**Size 2 Plugs - screw-less assembly**

**Wiring Installation**

1. **Open it:**
   Place 56MACTRO unlocking tool into spring clip, rotate locknut to unlocked position.

   **NOTE:** Only need to remove lock nut when changing cable seal size.

2. **Wire it & close it:**
   After cable termination, align arrows, twist body right and click to close.

3. **Lock it:**
   Rotate the cable gland until fully tightened, then rotate the locknut to the locked position.

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>56P332 - 56P550</th>
<th>56PA332 - 56PA550</th>
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<tr>
<td>Height</td>
<td>78 mm</td>
<td>78 mm</td>
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<td>51 mm</td>
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<tr>
<td>Length</td>
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<td>130 mm</td>
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**PLUG CONFIGURATIONS**

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<tr>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
</tr>
</thead>
</table>

Press clip once and remove screw driver. “Best fit” screwdriver 4mm.

Twist plug body left to open.

Press clip once and remove screw driver. “Best fit” screwdriver 4mm.

Twist plug body left to open.
Appliance Connector Range

Clipsal’s Single-Phase Extension Socket/ Appliance Connector range is an important design breakthrough.

It provides a common unit for both cord extension socket and appliance connector applications.

All connectors have impact-resistant, UV-stabilised mouldings.

The IP66 rating can be achieved when extension sockets/connectors are used in conjunction with compatible accessories such as 56P Plugs, 56PA Plugs and 56AI Appliance Inlets.

IP66 rated units feature a hose-proof flap, which maintains the International Protection Rating when the accessory is not being used.

Note: flap not provided as standard with smaller single-phase extension sockets.

56AM25 Adapter suits 25mm cable and conduit glands, and is suitable on 10A and 20A units (three-phase).

56AM40 Adapter suits 40mm cable and conduit glands, and is suitable on 32A and 50A units (three-phase).

Options:

- 56SC2 Socket Cap to suit single-phase extension sockets.
- 56CSC310 and 56CSC315 available in Resistant Orange. Add “RO” to catalogue number (e.g. 56CSC310 becomes 56CSC310-RO).
- Colours: EO, GY, RO (single-phase) EO (three-phase).
## Dimensions (mm)

**Single-phase socket**

<table>
<thead>
<tr>
<th></th>
<th>56CSC310</th>
<th>56CSC315</th>
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<tbody>
<tr>
<td><strong>Size 1 socket</strong></td>
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<tr>
<td>56CSC320</td>
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<tr>
<td>56CSC410</td>
<td></td>
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<td>56CSC420</td>
<td></td>
<td></td>
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<tr>
<td><strong>Size 2 socket</strong></td>
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<td></td>
</tr>
<tr>
<td>56CSC332</td>
<td></td>
<td></td>
</tr>
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<td>56CSC432</td>
<td></td>
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<td>56CSC440</td>
<td></td>
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</tr>
<tr>
<td>56CSC450</td>
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</tr>
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</table>

**Extension Socket and Appliance Connectors**
Pendant Outlets

Clipsal 56PO Three-Phase Pendant Outlets are a hanging version of the 56CSC Connectors. Ranging from 56PO410 to 56PO550, all have impact-resistant UV-stabilised mouldings.

56CSC Connectors can be converted to Pendant Outlets with the use of 56SHL or 56SHM suspension hooks.

Switched Pendant Outlets

A 56 Series Switched Pendant Outlet combines safety, performance and functionality. An IP66 rated outlet provides the ability to disconnect the supply without unplugging and from a prominent location. 56SP0310 and 56SP0315 are available within this range.

### Dimensions (mm)

<table>
<thead>
<tr>
<th>Pendant outlets</th>
<th>Pendant outlets</th>
<th>Switched pendant outlets</th>
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</thead>
<tbody>
<tr>
<td>56PO410</td>
<td>56PO432</td>
<td>56SP0310</td>
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<tr>
<td>56PO420</td>
<td>56PO440</td>
<td>56PO450</td>
</tr>
<tr>
<td>56PO510</td>
<td>56PO520</td>
<td>56PO532</td>
</tr>
<tr>
<td>56PO520</td>
<td></td>
<td>56PO540</td>
</tr>
<tr>
<td></td>
<td></td>
<td>56PO550</td>
</tr>
</tbody>
</table>
Pendant Conversion Kits
Clipsal 56SHM and 56SHL Suspension Hooks enable three-phase 56CSC Series Industrial Connectors to be easily converted to pendant outlets.

There are two models available (medium 56SHM and large 56SHL) for connectors; 10A – 20A and 32A – 50A respectively, both of which are manufactured from quality 316 grade stainless steel for long life and to withstand loads of up to 50kg.

Suspended Outlet Kit
The stainless steel 56SPOK suspended outlet kit allows two 56C or 56CV Series to be mounted back to back. It is also supplied with 316 grade stainless steel mounting screws.

Suspension Enclosures
The 56PEK25 and 56PEK32 Suspension Enclosure Kit is a two-module angled enclosure with a large eye, for attaching a chain.

The angle feature allows for greater ease of operation while suspended. The 56PEK25 has one single 25mm entry and the 56PEK32 has one 32mm entry. Both are available in Grey (GY), Resistant White (RW) and Resistant Orange (RO).

Dimensions (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>SUSPENDED PENDANT OUTLET KIT 56SPOK</th>
<th>SUSPENSION HOOK - MEDIUM 56SHM</th>
<th>SUSPENSION HOOK - LARGE 56SHL</th>
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</thead>
<tbody>
<tr>
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<td>82</td>
<td>88</td>
</tr>
<tr>
<td>Height</td>
<td>106</td>
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<td>Length</td>
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<td>51</td>
<td>51</td>
</tr>
<tr>
<td>Thickness</td>
<td>75</td>
<td>12</td>
<td>12</td>
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</tbody>
</table>
**Accessories**

**Plugs and Socket Caps**
When not in use, Clipsal 56P and 56PA Series Plugs can be additionally protected by utilising the 56PC Series Plug Caps. This includes the 56PC, 56PCI and 56PC2 caps.

When in position, they protect the pins from damage, dirt, grease, chemicals and water ingress.

The caps are simple to fit and fully enclose the plug face to provide IP66 protection.

Clipsal Single Phase CSC Extension Sockets and Appliance Connectors can be additionally protected by utilising the 56SC2 Socket Cap.

**56 Series Mactro™ Unlocking Tool:**
- Tool helps to simplify the unlocking of the plug.
- By simply placing the 56MACTRO Unlocking Tool into the spring clip and rotating the locknut, the plug will unlock.
- There is no need to fully remove the cable nut (it can stay on).
- Unlocking tool included with every plug and socket connector.
- Refer to wiring installation on page 15 for guide.

**Adaptor Modules**
The 56AM25 + 56AM40 threaded adaptors are suitable for fitments of flexible conduit glands or hose adaptors.

To fit, simply remove existing locknut and replace with adaptor module.

- 56AM25 will suit 10A to 20A three-phase (size 1) plugs
- 56AM40 suit 32A to 50A three-phase (size 2) plugs.

---

**Catalogue No.** | **Description** | **Suits**
--- | --- | ---
56AM25 | Adaptor module 25mm | Size 1 plugs and appliance connectors 10A - 20A
56AM40 | Adaptor module 40mm | Size 2 plugs and appliance connectors 32A - 50A
56PC | Protective pin caps | Size 1 plugs - 10A - 20A + 20A single-phase round pin (320)
56PC2 | Protective pin caps | Single-phase plugs - 10A - 20A, but not size 1 plugs
56PCI | Protective pin caps | Size 2 plugs - 32A - 50A + 32A single-phase round pin (332)
56SC2 | Socket caps | Single-phase plugs - 10A - 20A - small size 250V
Plugs and Socket Configurations

10A - 15A PLUG CONFIGURATIONS

A 10A 250V
56P310
56CSC310
56SPO310

B 15A 250V
56P315
56CSC315
56SPO315

C 20A 250V
56P320
56CSC320
56SPO320

D 10A 125V
56P210

E 15A 32V
Extra Low Voltage
56P215/32

F 10A 250V
56P310SL

G 10A 250V
56P310RP

H 10A 110V
56P3110

32A PLUG CONFIGURATIONS

I 32A 250V
56P332
56PA332
56CSC332

J 32A 500V
56P432
56PA432
56CSC432
56SPO432

K 40A 500V
56P440
56PA440
56CSC440

L 50A 500V
56P540
56PA540
56CSC540
56SPO540

M 32A 500V
56P532
56PA532
56CSC532
56SPO532

N 40A 500V
56P540
56PA540
56CSC540
56SPO540

O 50A 500V
56P550
56PA550
56CSC550
56SPO550

10A - 20A PLUG CONFIGURATIONS

P 10A 500V
56P410
56PA410
56CSC410
56SPO410

Q 20A 500V
56P420
56PA420
56CSC420
56SPO420

R 20A 500V
Unique
56PA416K
56PA416K

S 16A 500V
56P416K

T 10A 500V
56P510
56PA510
56CSC510
56SPO510

U 20A 500V
56P520
56PA520
56CSC520
56SPO520

V 10A 500V
56P610
56PA610

W 10A 500V
56P710
56PA710

X 20A 500V
56P720
56PA720

21
## Technical Data

### Angled and Straight Plugs

<table>
<thead>
<tr>
<th>Catalogue Number</th>
<th>Cat. No.</th>
<th>Amp</th>
<th>Volt</th>
<th>Number of Pins</th>
<th>Conductor Terminal mm²</th>
<th>Cable Nominal Dia. mm</th>
<th>IP Rating</th>
<th>Socket Config.</th>
<th>Matching Gland Nut Thread</th>
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<tbody>
<tr>
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<td>Straight</td>
<td></td>
<td></td>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
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<td>-</td>
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<td>10</td>
<td>66</td>
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<td>65P215/32</td>
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<td>15A</td>
<td>32V</td>
<td>2 Polarised, Extra Low Voltage</td>
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<td>1.5</td>
<td>7</td>
<td>10</td>
<td>66</td>
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<tr>
<td>65P310/110</td>
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<td>10A</td>
<td>110V</td>
<td>2 Round Earth and Flat Earth</td>
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<td>7</td>
<td>10</td>
<td>66</td>
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<td>10A</td>
<td>250V</td>
<td>3 Round Pins</td>
<td>0.75</td>
<td>1</td>
<td>7</td>
<td>10</td>
<td>66</td>
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<td>3 Flat Pins</td>
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<td>66</td>
</tr>
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<td>65P310SL</td>
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<td>10A</td>
<td>250V</td>
<td>2 Flat Pins and Round Earth</td>
<td>0.75</td>
<td>1</td>
<td>7</td>
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<td>1.5</td>
<td>7</td>
<td>10</td>
<td>66</td>
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<td>65P320F</td>
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<td>20A</td>
<td>250V</td>
<td>3 Flat Pins</td>
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<td>10</td>
<td>17.5</td>
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<td>56PA320</td>
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<td>3 Round Pins</td>
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<td>65P410</td>
<td>56PA410</td>
<td>10A</td>
<td>500V</td>
<td>4 Round Pins</td>
<td>1.0</td>
<td>6</td>
<td>7</td>
<td>16</td>
<td>66</td>
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<tr>
<td>65P416K</td>
<td>56PA416K</td>
<td>16A</td>
<td>500V</td>
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