

MIRO PQ35 Accessories - Voltage Leads and Attachments

Single phase voltage lead

1APC4

| | |
|-----------------|--------------------|
| Connection | Single phase |
| Power source | Phase A to Neutral |
| Termination | 3 pin GPO plug |
| Number of wires | 3 (1P + N + G) |
| Weight | 200g |
| Cable length | 2m |
| Environment | Indoor |

The single phase lead incorporates a three pin plug at one end which connects to a general purpose outlet (GPO), and an appropriate connector at the other end which attaches to the MIRO. The lead provides power to the MIRO via a connection to Phase A to Neutral and accordingly monitors and measures single phase voltage.



Figure 1: Single phase lead for MIRO PQ35
Part number: 1APC4

Three phase voltage leads

Three phase leads connect to live power systems.

Connections should only be made by appropriately qualified operators. Appropriate personal protective equipment must be used when making live connections.

If the clamps are wet or are installed or removed in rainy conditions, it is recommended that extra safety precautions are followed. As a minimum, this includes the use of appropriately rated insulated gloves.

If the three phase lead shows any sign of damage or broken insulation, it should not be used. Please return it to CHK Power Quality Pty Ltd or your supplier for repair or replacement. Never connect the Active or Neutral leads to ground/Earth.

Three phase leads suitable for the MIRO PQ35 are double insulated and UV stabilised and suitable for indoor and outdoor installations. The working voltage between any phase and ground must not exceed 300 V RMS. The working voltage between any two phases must not exceed 520 V RMS.

Each phase of the voltage cable is separately fused and there are various voltage cable attachments available to suit different types of installations.

VL3 - fused three phase lead

1AVL3

| | |
|-----------------|---------------------|
| Connection | Three phase delta |
| Power source | Phase A to B |
| Termination | Fused end |
| Number of wires | 3 (3P) |
| Weight | 300g |
| Cable length | 2m |
| Environment | Indoor / outdoor |
| Attachments | 1AAC3TE and 1AAC3BC |

The 1AVL3 is a three phase three wire lead with Red, White and Blue wires and intended for a three phase delta connection. The wires are partially terminated with brass contacts and fused ends. It is intended to be utilised with attachments.



Figure 2: Fused three phase lead for MIRO PQ35
Part number: 1AVL3

VL4 - fused three phase lead

1AVL4

| | |
|-----------------|----------------------|
| Connection | Three phase star/wye |
| Power source | Phase A to Neutral |
| Termination | Fused end |
| Number of wires | 4 (3P + N) |
| Weight | 400g |
| Cable length | 2m |
| Environment | Indoor / outdoor |
| Attachments | 1AAC4TE and 1AAC4BC |

The 1AVL4 is a three phase four wire lead with Red, White, Blue and Black wires and intended for a three phase star connection. The wires are partially terminated with brass contacts and fused ends. It is intended to be utilised with attachments.



**Figure 3: Fused three phase lead for MIRO PQ35
Part number: 1AVL4**

VL6 - fused three phase lead

1AVL6

| | |
|-----------------|----------------------------|
| Connection | Three phase star/wye/delta |
| Power source | Phase A to Neutral A |
| Termination | Fused end |
| Number of wires | 6 (3P +3N) |
| Weight | 600g |
| Cable length | 2m |
| Environment | Indoor / outdoor |
| Attachments | 1AAC6TE and 1AAC6BC |

The 1AVL6 is a fused three phase six wire lead that connects to three phase circuits using six banana plugs. The lead has separate neutrals and intended as a general connection lead for use on all types of power systems.

The 1AVL6 lead measures Phase A to Neutral A, Phase B to Neutral B and Phase C to Neutral C voltages.

The 1AVL6 lead is fused with 2A, high rupture capacity (HRC) fuses. These fuses are an integral part of the 1AVL6 lead and are not user replaceable.



**Figure 4: Fused three phase lead for MIRO PQ35
Part number: 1AVL6**

Lead attachments

1AAC4TE

| | |
|-----------------|---|
| Termination | Fused end |
| Number of wires | 4 (3P + N) |
| Weight | 150g |
| Cable length | 20cm |
| Environment | Indoor / outdoor |
| Attachments | VL4 and 2A 500V HRC, (10 x 38) mm fuses |

Part numbers of individual items

- 1 x AC4TE/BK (Fused tinned end Black)
- 1 x AC4TE/BU (Fused tinned end Blue)
- 1 x AC4TE/RD (Fused tinned end Red)
- 1 x AC4TE/WH (Fused tinned end White) and
- 4 x FSHD2A10x38 (fuse)

1AAC3TE

Part numbers of individual items

- 1 x AC4TE/BU (Fused tinned end Blue)
- 1 x AC4TE/RD (Fused tinned end Red)
- 1 x AC4TE/WH (Fused tinned end White) and
- 3 x FSHD2A10x38 (fuse)

1AAC6TE

Part numbers of individual items

- 3 x AC4TE/BK (Fused tinned end Black)
- 1 x AC4TE/BU (Fused tinned end Blue)
- 1 x AC4TE/RD (Fused tinned end Red)
- 1 x AC4TE/WH (Fused tinned end White) and
- 6 x FSHD2A10x38 (fuse)

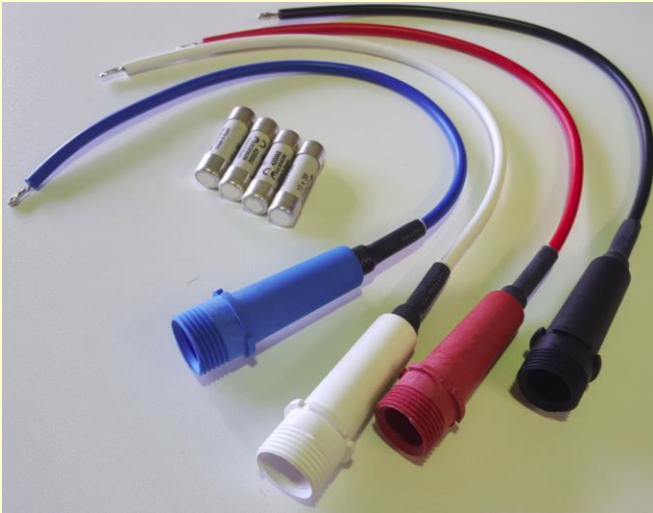


Figure 5: Tinned end fused attachment with fuses
Part number: 1AAC4TE

1AAC4BC

| | |
|-----------------|------------------|
| Termination | Fused end |
| Number of wires | 4 (3P + N) |
| Weight | 200g |
| Cable length | 20cm |
| Environment | Indoor / outdoor |
| Attachments | VL4 |

Part numbers of individual items

- 1 x CROC-PTE-BK (Black crocodile clip)
- 1 x CROC-PTE-BU (Blue crocodile clip)
- 1 x CROC-PTE-RD (Red crocodile clip)
- 1 x CROC-PTE-WH (White crocodile clip)
- 1 x AC4B-BK-P (Banana plug piggy fuse end)
- 1 x AC4B/BU (Banana plug assembly fuse end)
- 1 x AC4B/RD (Banana plug assembly fuse end)
- 1 x AC4B/WH (Banana plug assembly fuse end)

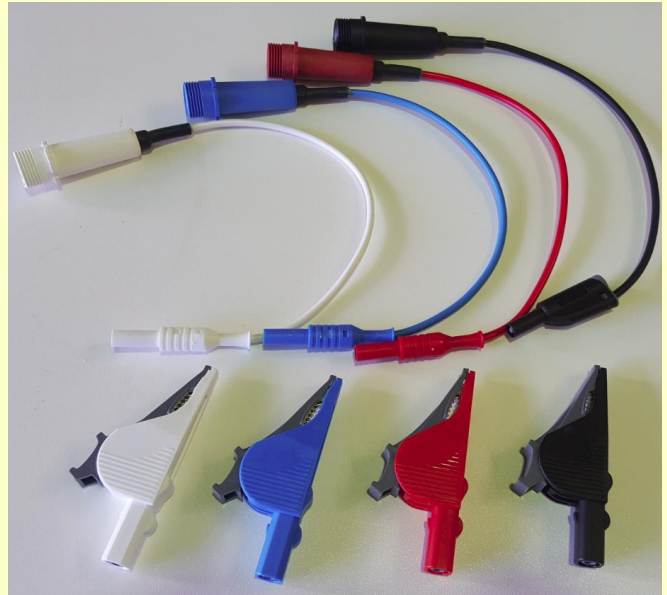


Figure 6: Banana plug fused attachment with small clamps (crocodile clips); Part number: 1AAC4BC

Large fused clamps

| | |
|-----------------|------------------|
| Termination | Fused end |
| Number of wires | 4 (3P + N) |
| Weight | 600g |
| Cable length | 20cm |
| Environment | Indoor / outdoor |
| Attachments | VL4 |



Figure 7: Large fused clamps (lfc)

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Part numbers of individual items

- 1 x 1AAC1NCL/BK (Black lead with lfc)
- 1 x 1AAC1NCL//BU (Blue lead with lfc)
- 1 x 1AAC1NCL//RD (Red lead with lfc) and
- 1 x 1AAC1NCL//WH (White lead with lfc)

Each clamp incorporates a 16A 500V HRC (10 x 38) mm fuse.

The above parts are normally sold with a VL4 lead as a 1AVL4C2.