

## MIRO PQ45 Accessories - Voltage Leads and Attachments

### Single phase voltage lead

#### 1APC5

Connection	Single phase
Power source	Phase A to Neutral
Termination	3 pin GPO plug
Number of wires	3 (1P + N + G)
Weight	350g
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 PQ45**  
**Part number: 1APC5**

### 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 PQ45 are double insulated and UV stabilised and suitable for indoor and outdoor installations. The working voltage between any phase and ground must not exceed 600 V RMS. The working voltage between any two phases must not exceed 600V RMS.

All PQ45 three phase leads meet protection level CAT IV 600V.

### VL5 - fused three phase leads

#### 1AVL5-B

Connection	Three phase star/wye
Power source	Phase A to Neutral
Termination	Banana plugs
Number of wires	5 (3P + N + G)
Weight	950g
Cable length	2m
Environment	Indoor / outdoor
Fuses	2A 600V HRC, (10 x 38) mm
Protection level	CAT IV 600V

The AVL5-B is a fused three phase five wire lead that has a common neutral (N) shared by all phases and intended for a three phase star/wye connection.

The 1AVL5-B lead is fused with 2A, high rupture capacity (HRC) fuses. These fuses are an integral part of the 1AVL5-B lead and are not user replaceable.

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Figure 2: Fused three phase lead for MIRO P45, with banana plugs and detachable small clamps (crocodile clips); Part number: 1AVL5-B

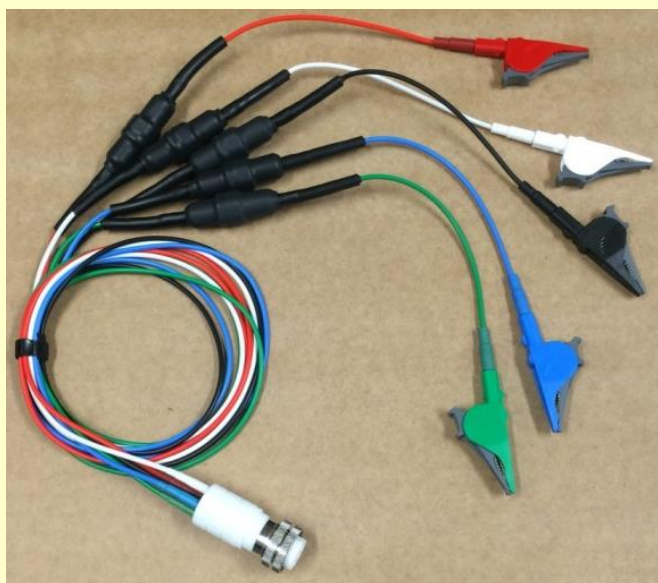


Figure 3: Fused three phase lead for MIRO P45, with banana plugs and detachable small clamps (crocodile clips); Part number: 1AVL5-B-C1 (coloured wires and clips)

**1AVL5-C**

Connection	Three phase star/wye
Power source	Phase A to Neutral
Termination	Large fused clamps
Number of wires	5 (3P + N + G)

Weight	1050g
Cable length	2m
Environment	Indoor / outdoor
Fuses	2A 600V HRC, (10 x 38) mm
Protection level	CAT IV 600V

The 1AVL5-C is a fused three phase five wire lead that has a common neutral (N) shared by all phases and intended for a three phase star/wye connection using large clamps.

The 1AVL5-C clamps are fused with 2A, high rupture capacity (HRC) fuses. These fuses are an integral part of the 1AVL5-C lead and are not user replaceable.



Figure 4: Fused three phase lead for MIRO PQ45 with large fused clamps; Part number: 1AVL5-C

**VL8 - fused three phase leads**

**1AVL8**

Connection	Three phase star/wye/delta
Power source	Phase A to Neutral A
Termination	Banana plugs
Number of wires	8 (3P + 3N + 2G)
Weight	1.2kg
Cable length	2m
Environment	Indoor / outdoor
Fuses	2A 600V HRC, (10 x 38) mm
Protection level	CAT IV 600V

The 1AVL8 is a fused three phase eight wire lead that has separate neutral (N) and intended as a general connection lead for use on all types of power systems.

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The 1AVL8 lead is fused with 2A, high rupture capacity (HRC) fuses. These fuses are an integral part of the 1AVL8 lead and are not user replaceable.



**Figure 5: Fused three phase lead for MIRO PQ45 with banana plugs; Part number: 1AVL8**

**1AVL8-B**

Connection	Three phase star/wye/delta
Power source	Phase A to Neutral A
Termination	Banana plugs with small clamps
Number of wires	8 (3P + 3N + 2G)
Weight	1.4kg
Cable length	2m
Environment	Indoor / outdoor
Fuses	2A 600V HRC, (10 x 38) mm
Protection level	CAT IV 600V



**Figure 6: Fused three phase lead for MIRO PQ45 with banana plugs and detachable small clamps (crocodile clips); Part number: 1AVL8-B**

**1AVL8-C**

Connection	Three phase star/wye/delta
Power source	Phase A to Neutral A
Termination	Large fused clamps
Number of wires	8 (3P + 3N + 2G)
Weight	1.6kg
Cable length	2m
Environment	Indoor / outdoor
Fuses	2A 600V HRC, (10 x 38) mm
Protection level	CAT IV 600V

The 1AVL8-C clamps are fused with 2A, high rupture capacity (HRC) fuses. These fuses are an integral part of the 1AVL8-C lead and are not user replaceable.



**Figure 7: Three phase lead with large fused clamps Part number: 1AVL8-C**