



***Manual Transfer (MT) - Automatic Transfer
Switch (ATS)***

INSTALLATION MANUAL (For all models of MT & ATS)



ATS MODEL Shown Gencontrol 100

BEFORE INSTALLATION YOU MUST READ THIS MANUAL COMPLETELY – RETAIN FOR FUTURE USE


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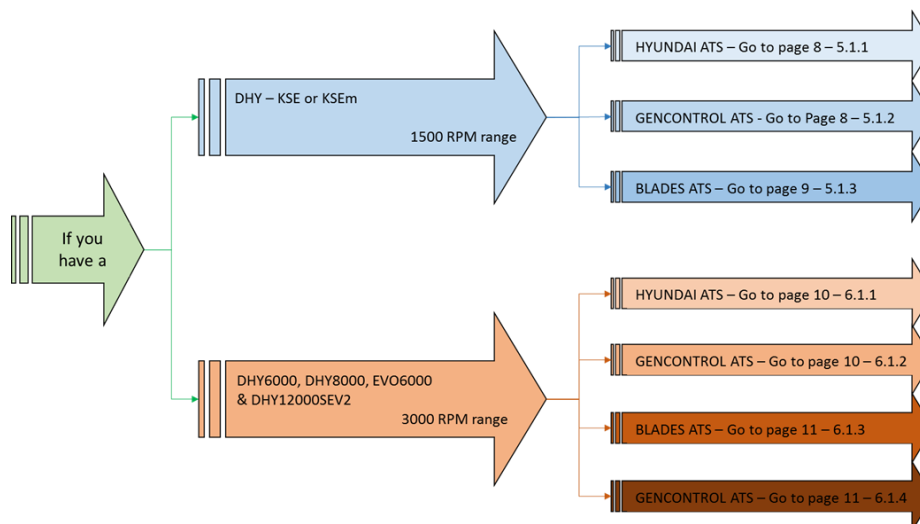
1. ELECTRICAL INSTALLATIONS

- 1.1. All electrical installations should be carried out by a competent person as described in, and in accordance with;
- 1.1.1. BS7671:2008 – Requirements for Electrical Installations, incorporating Amendment N° 1.
 - 1.1.2. BS7671:2008 - On-Site Guide, incorporating Amendment No 1.
 - 1.1.3. If in any doubt contact an Approved Electrician.
 - 1.1.4. All drawings contained in this document are supplied for guidance only.

2. EARTHING ARRANGEMENTS

- 2.1. Our single phase generators are supplied with floating earth, i.e. the Neutral and Earth connectors inside the generator is not connected.
- 2.2. However if a link is required to connect the neutral and earth. You should select a suitably sized cable and connection.
- 2.3. It is very important to note that with a floating earth generator the combination of equipment to be supplied shall not exceed the following;
- 2.3.1. Only one item of Class 1 equipment – i.e. not double insulated
 - 2.3.2. One or more of Class 2 equipment – i.e. double insulated, as shown on symbol. 
 - 2.3.3. Or a combination of - 2.3.1. Only one item of Class 1 equipment and one or more of Class 2 equipment.
- 2.4. Earthing cable should be sized in accordance with BS7671:2008 – Requirements for Electrical Installations, incorporating Amendment No 1.
- 2.5. Earth electrodes should be tested in accordance with earth electrode test Figure 10.3.5.2 in BS7671:2008 - On-Site Guide, incorporating Amendment No 1.
- 2.6. Our three phase generators have the neutral/earth link fitted at source within generator.

3. ATS to GENERATOR CONNECTION SELECTION



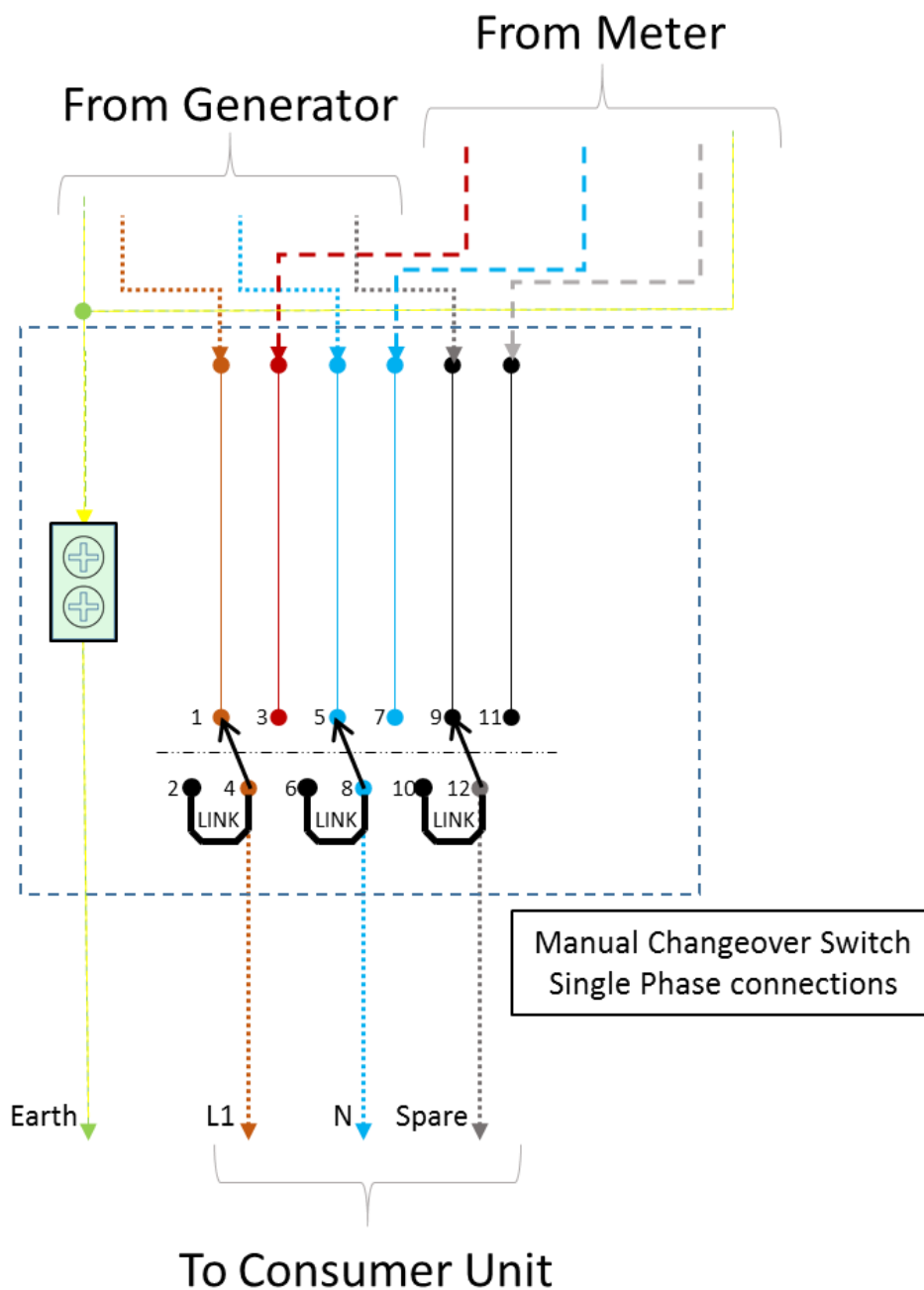
4. MANUAL CHANGEOVER

4.1. The next section covers the Manual Changeover connections for connecting the generator to a property with a normal mains connection supplied by the Electricity Distributor.

⚠ WARNING

- UNDER NO circumstances should a stand-by generator be allowed to feed the National Grid.
- UNDER NO circumstances should the installation be allowed to back feed into a property. The practice is extremely DANGEROUS and can result in serious injury.

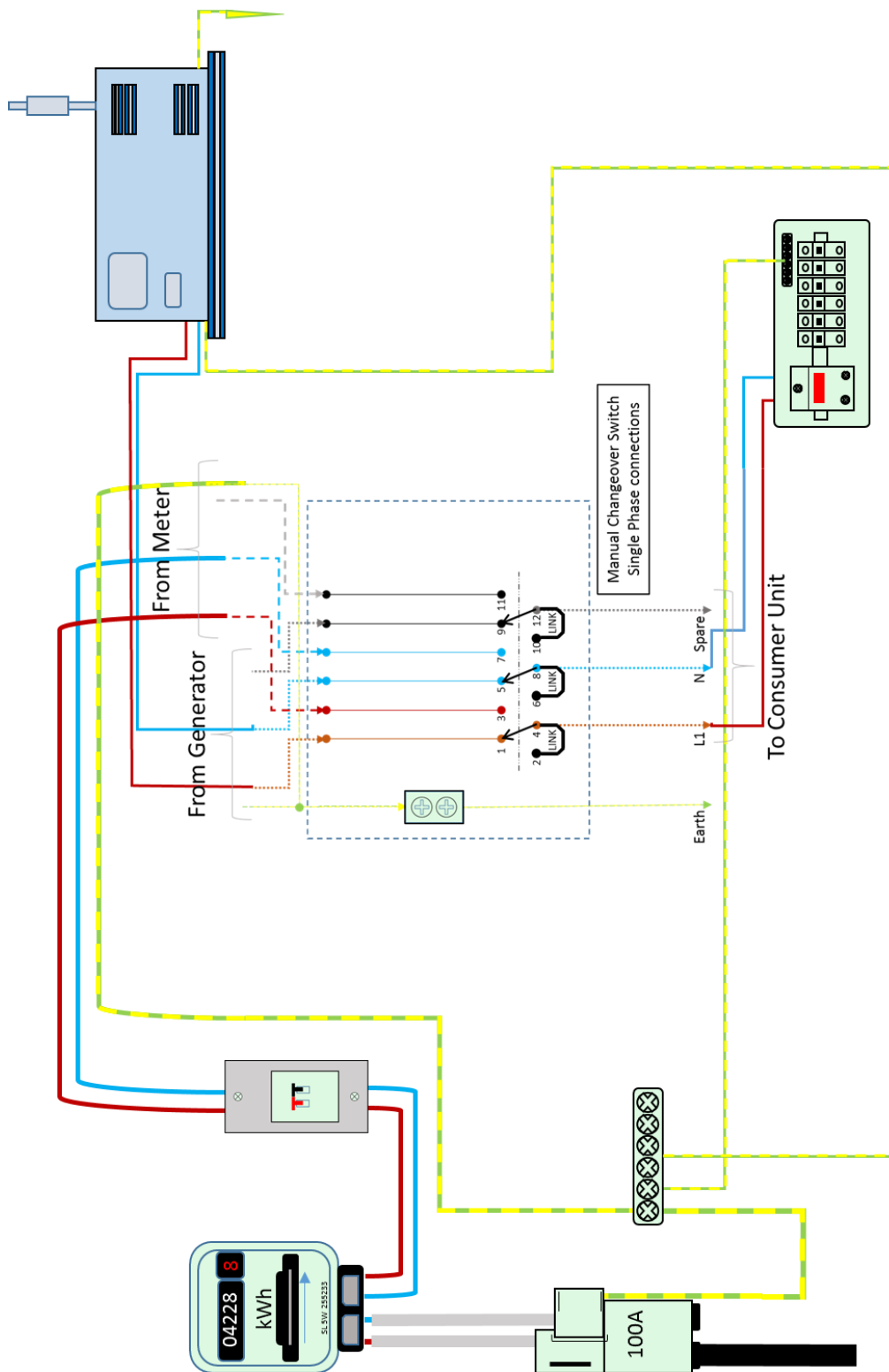
4.2. Single phase Manual changeover switching. (Suppliers - Combined Neutral/Earth).



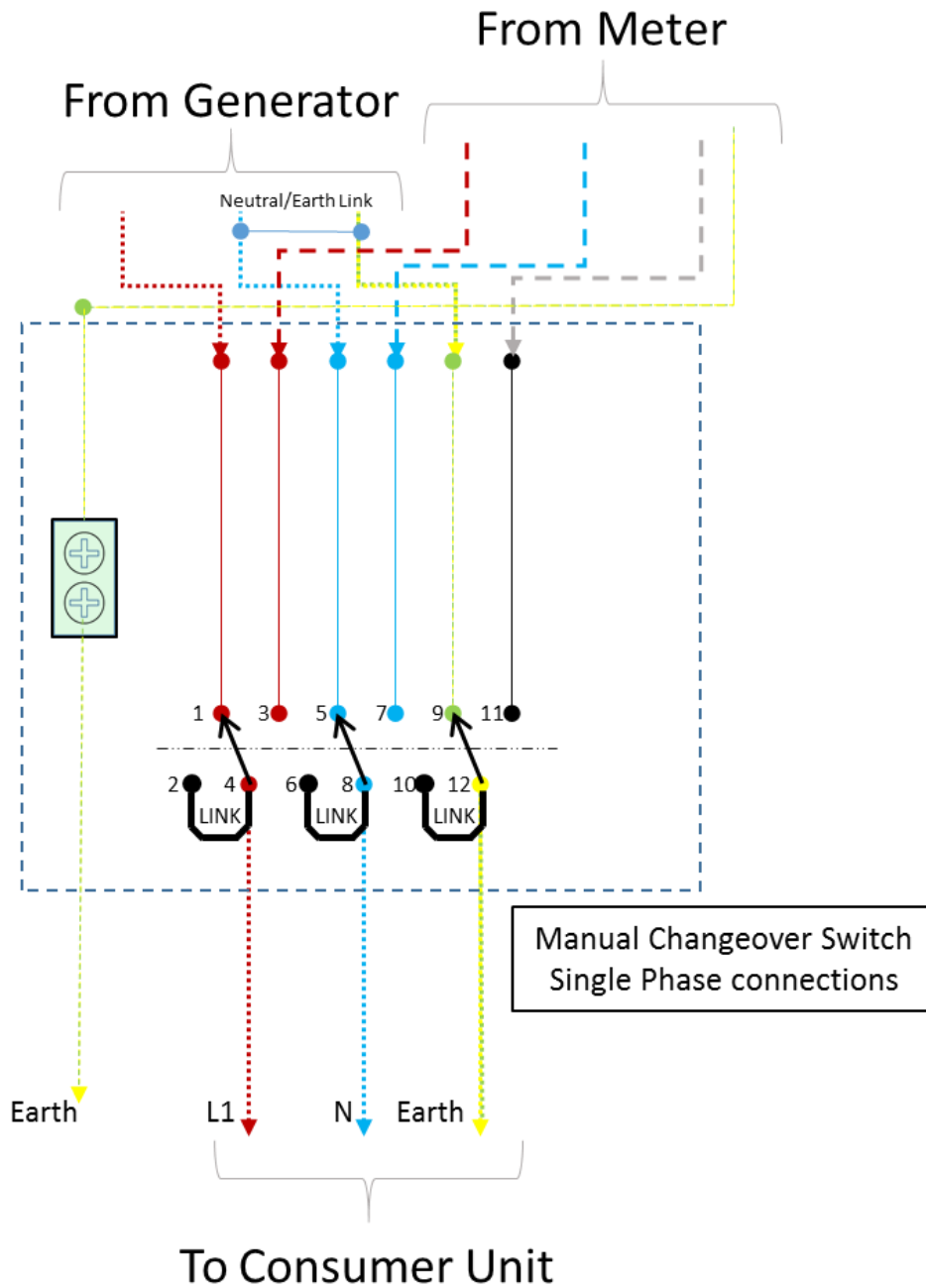
4.2.1. Wiring schematic. (Suppliers - Combined Neutral/Earth).

4.2.1.1. Single phase interconnection.

4.2.1.1.1. Interconnection wiring schematic. (Suppliers - Combined Neutral/Earth).

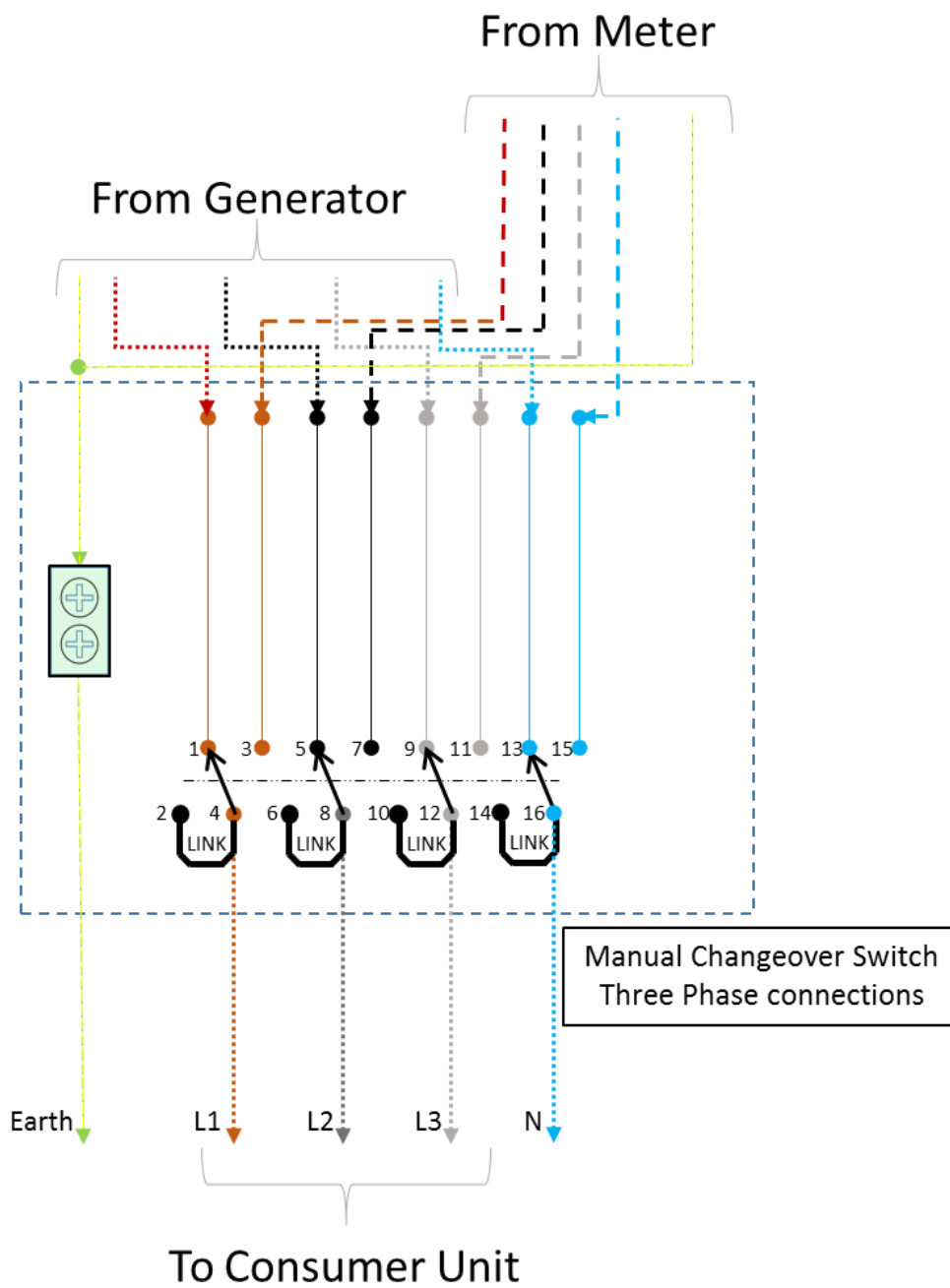


4.2.2. Single phase Wiring schematic. (Generator - Neutral/Earth fitted).



4.3. Three phase Manual changeover.

4.3.1. Wiring schematic.

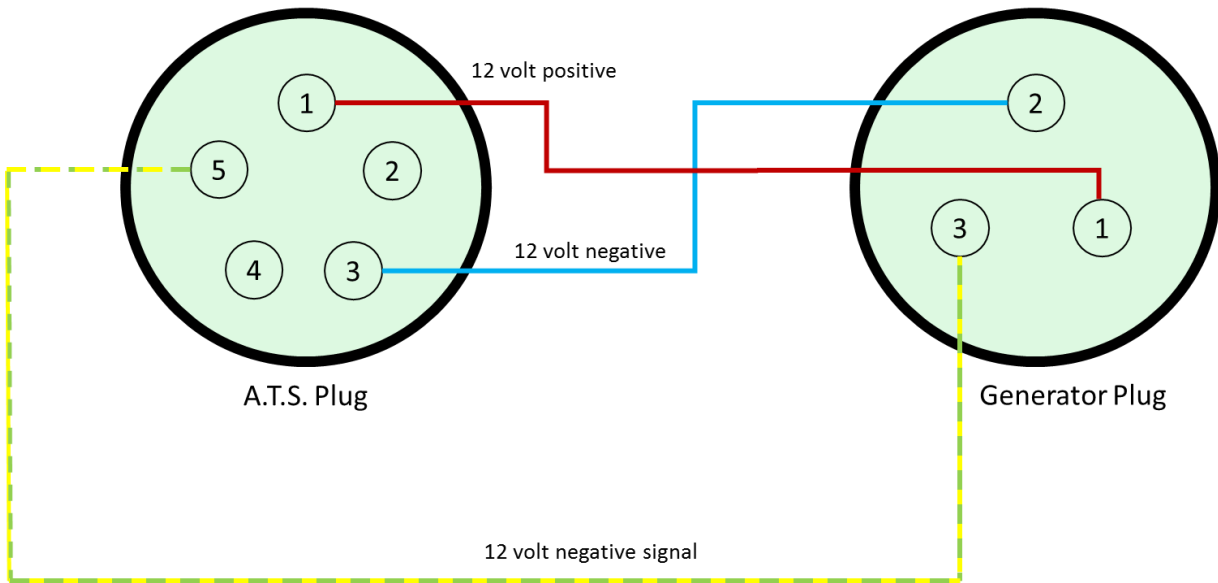


5. ATS 1500 RPM.

5.1. Connection diagrams.

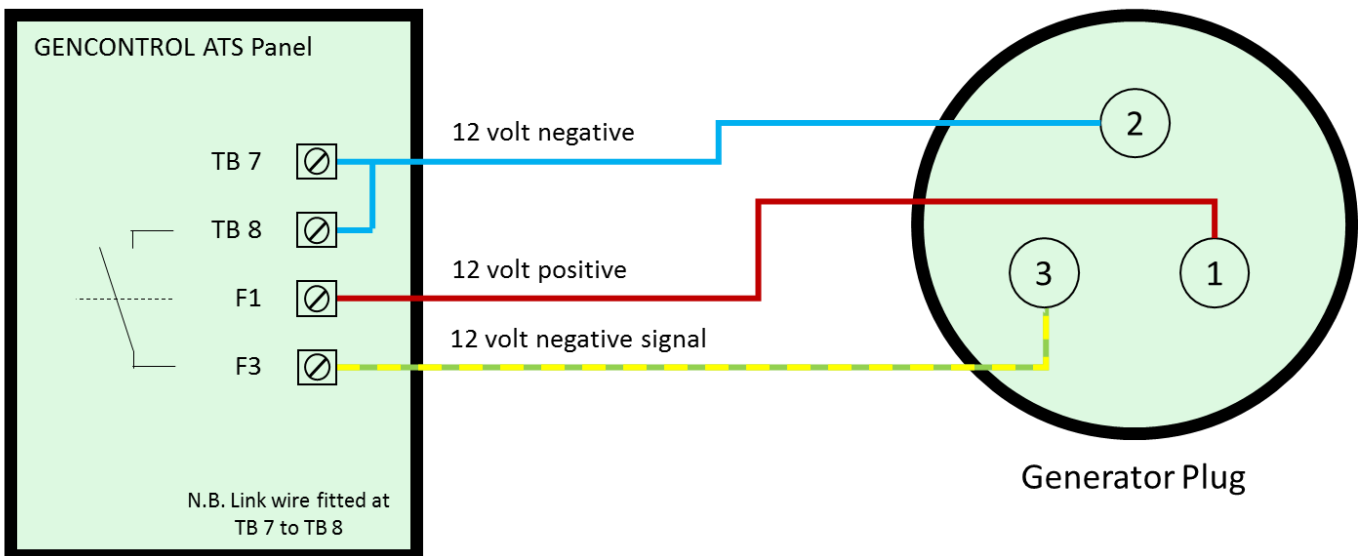
5.1.1. 1500 rpm machines – HYUNDAI ATS. *N.B. Cable colours are for indication purposes only.*

Connection diagram for HYUNDAI ATS Communication cable
To suit DHY 1500 rpm machines – Hyundai ATS Modules



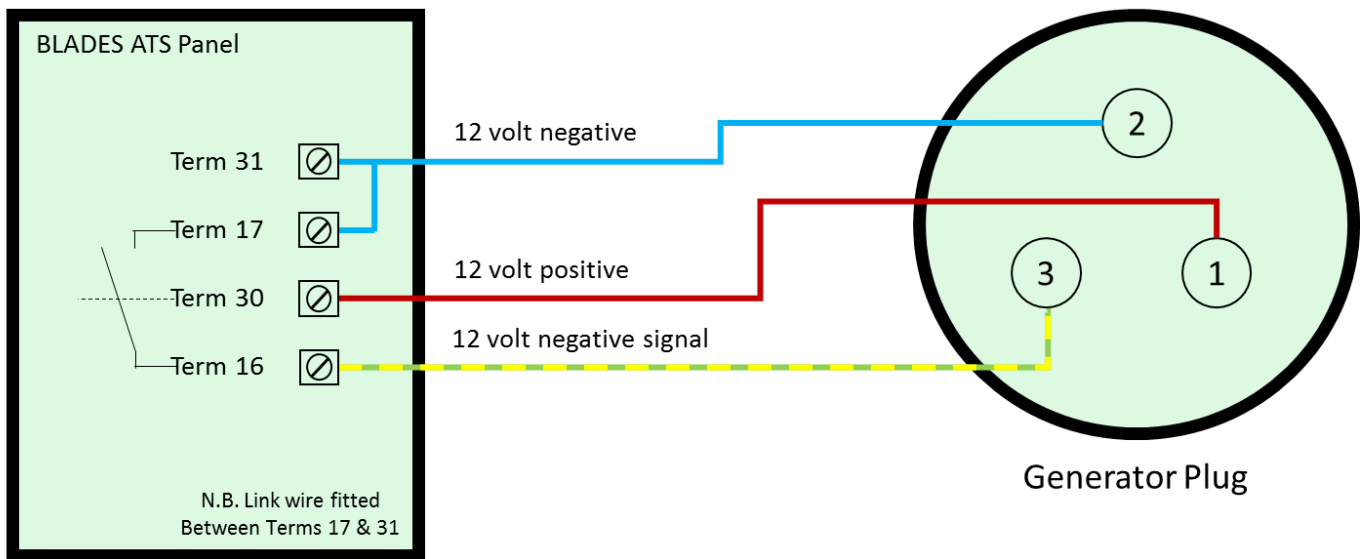
5.1.2. 1500 rpm machines – GENCONTROL ATS. *N.B. Cable colours are for indication purposes only.*

Connection diagram for GENCONTROL ATS Communication cable
To suit DHY 1500 rpm machines – Gencontrol ATS



5.1.3. 1500 rpm machines – BLADES ATS. N.B. Cable colours are for indication purposes only.

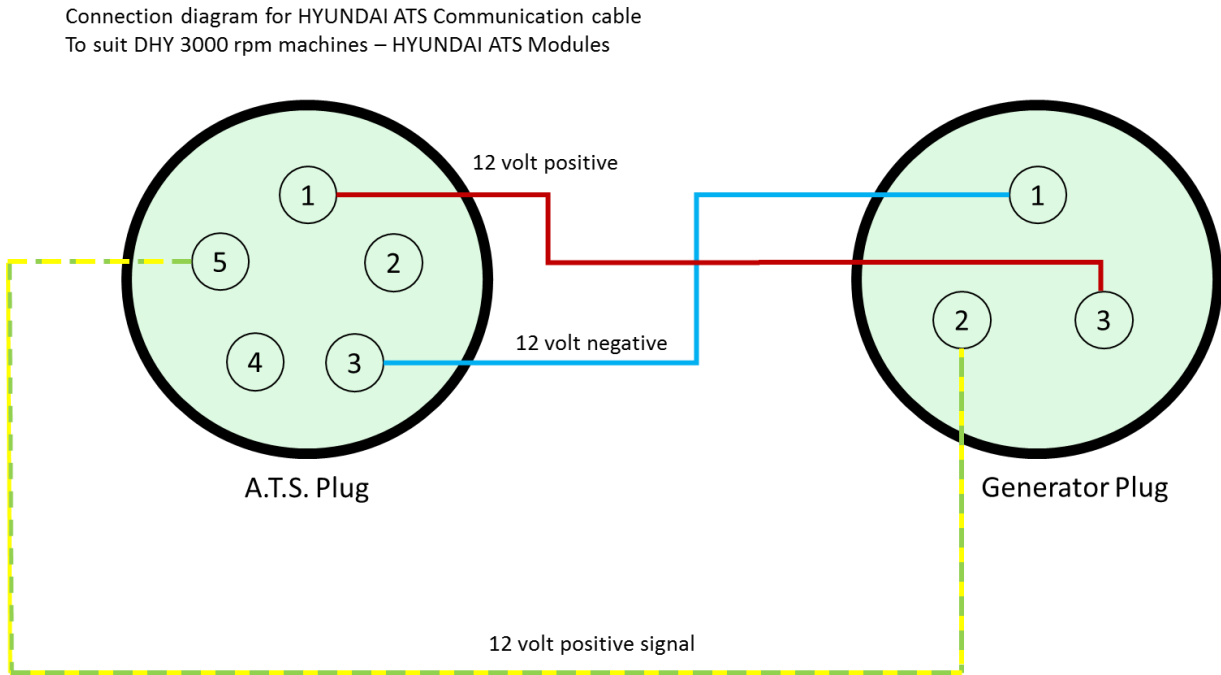
Connection diagram for BLADES ATS Communication cable
To suit DHY 1500 rpm machines – BLADES ATS



6. ATS 3000 RPM

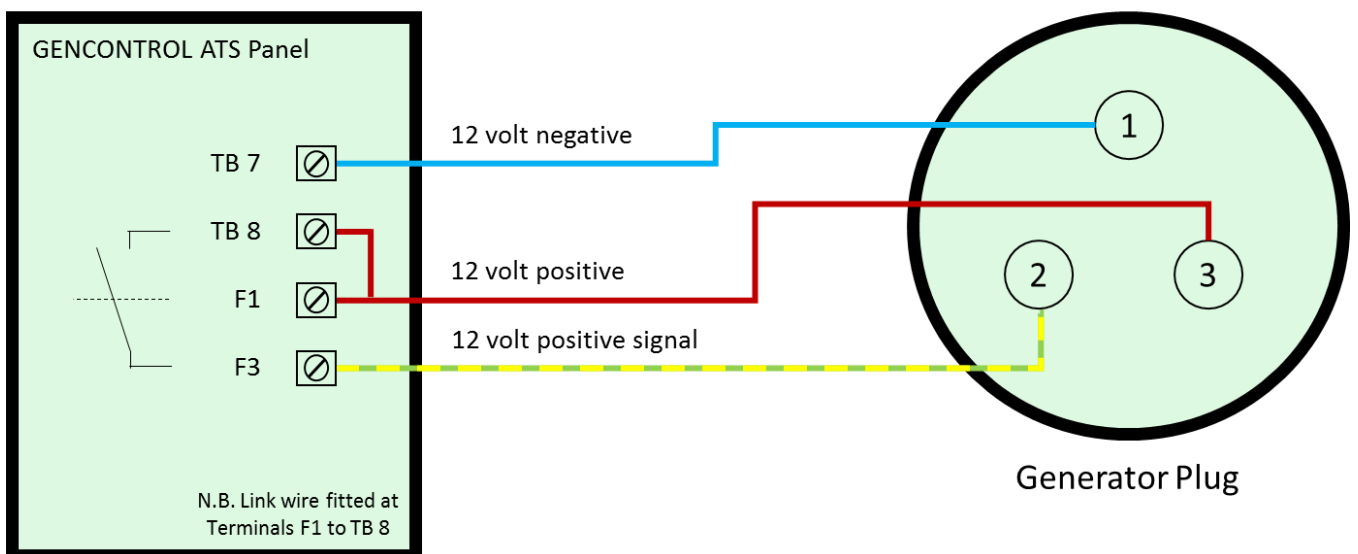
6.1. This next section covers the ATS interlink connections for 3000 rpm machines and cover the connections required from the generator to an ATS.

6.1.1. 3000 rpm machines – HYUNDAI ATS. *N.B. Cable colours are for indication purposes only.*



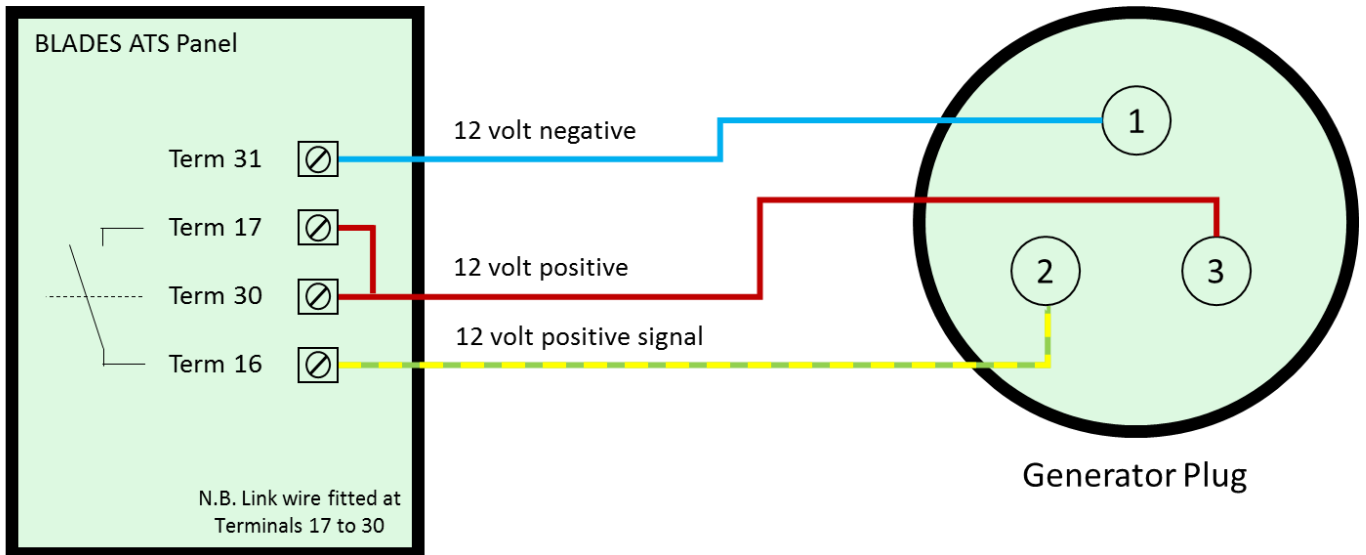
6.1.2. 3000 rpm machines – GENCONTROL ATS. *N.B. Cable colours are for indication purposes only.*

Connection diagram for GENCONTROL TS Communication cable
To suit DHY 6000/8000, EVO 6000 – Gencontrol ATS



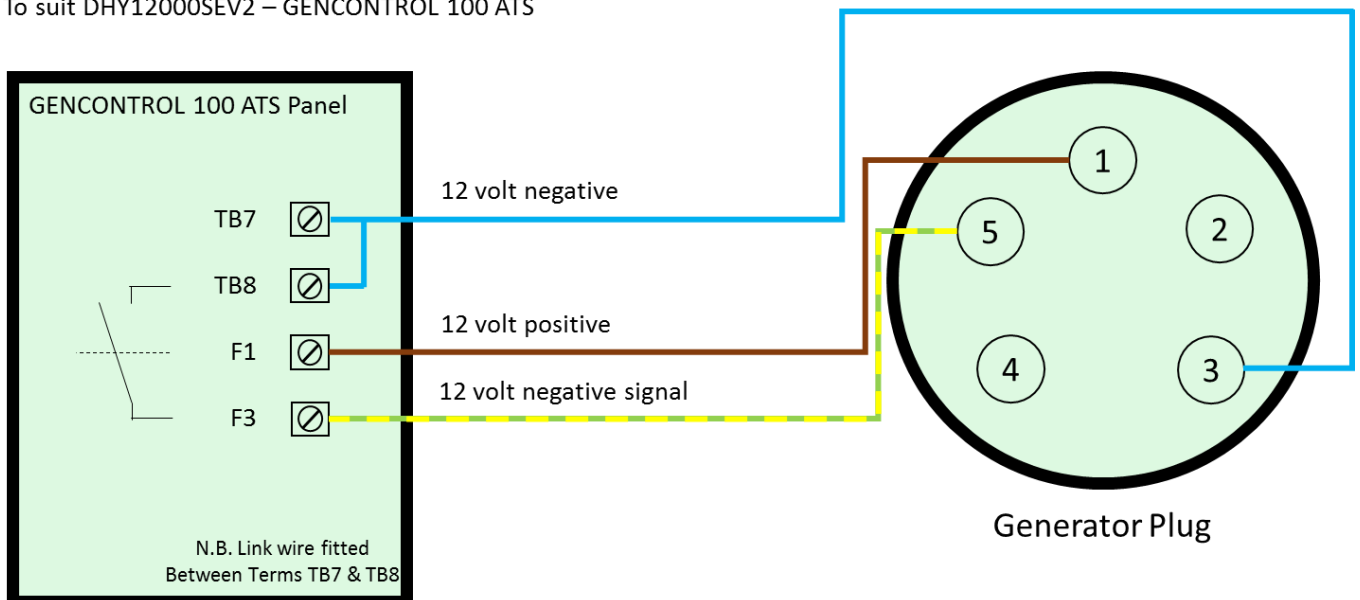
6.1.3. 3000 rpm machines – BLADES ATS. *N.B. Cable colours are for indication purposes only.*

Connection diagram for BLADES ATS Communication cable
To suit DHY 6000/8000, EVO 6000 – Blades ATS



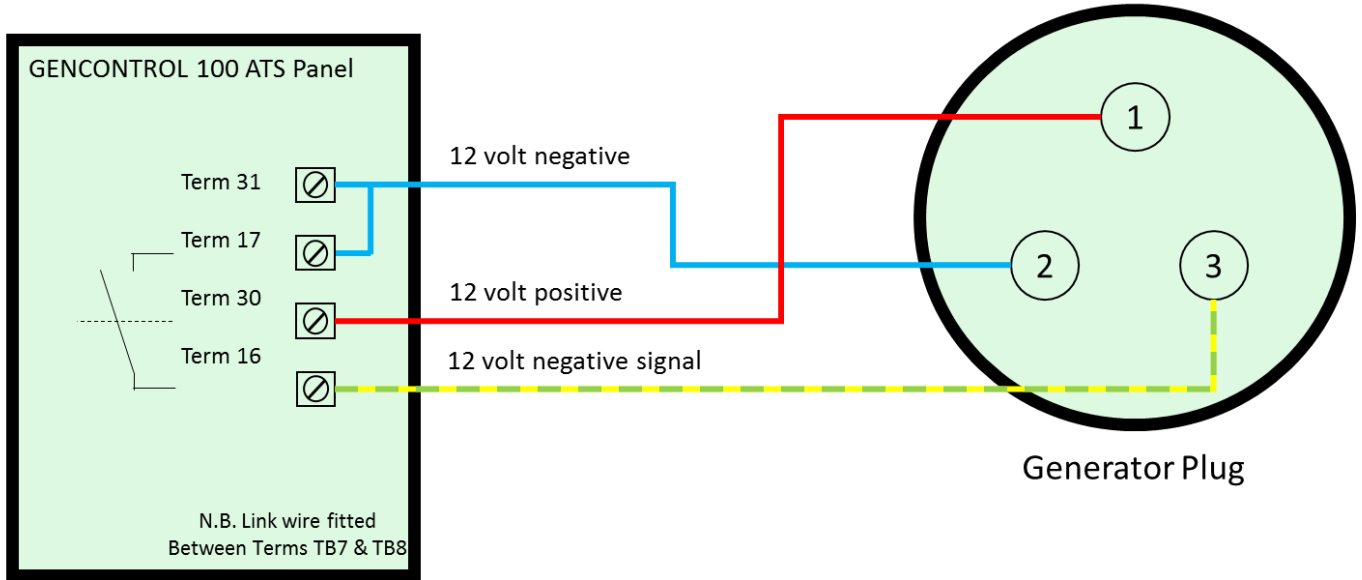
6.1.4. 3000 rpm machines – GENCONTROL ATS N.B. Cable colours are for indication purposes only.

Connection diagram for GENCONTROL 100 ATS Communication cable
To suit DHY12000SEV2 – GENCONTROL 100 ATS



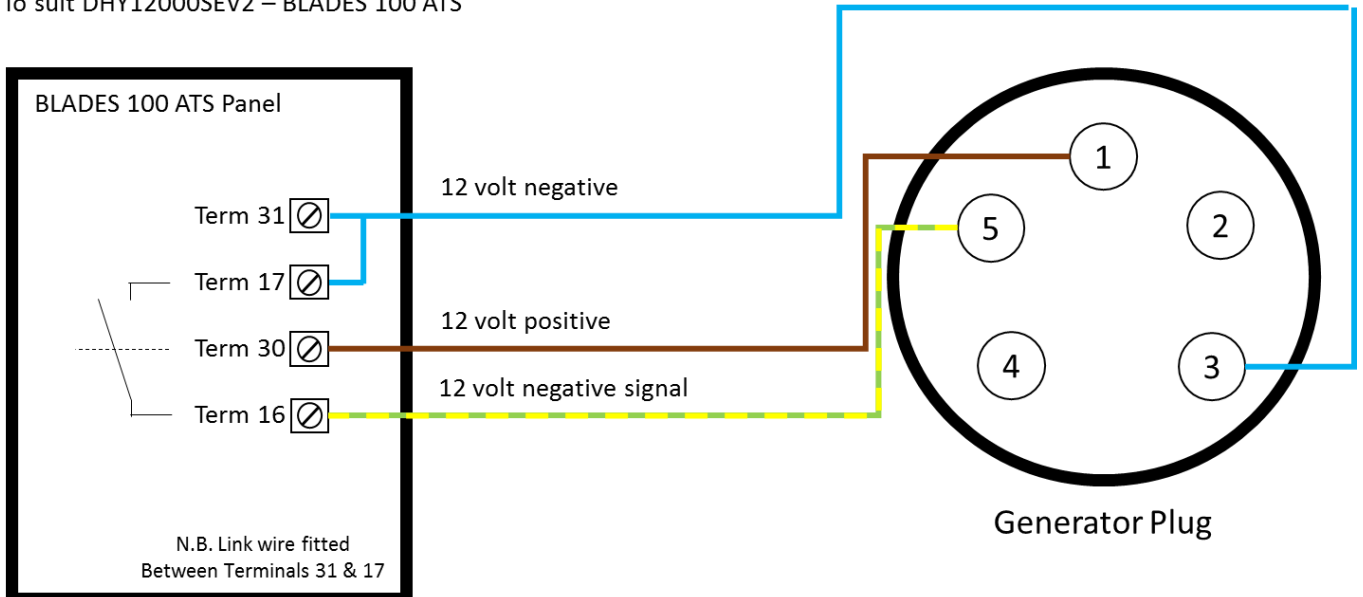
6.1.5. 3000 rpm machines – GENCONTROL ATS Communication – Cable colours are indication purposes only. **Three pin variant.**

Connection diagram for GENCONTROL 100 ATS Communication cable
To suit DHY12000SEV2 – GENCONTROL 100 ATS – **Three pin variant**

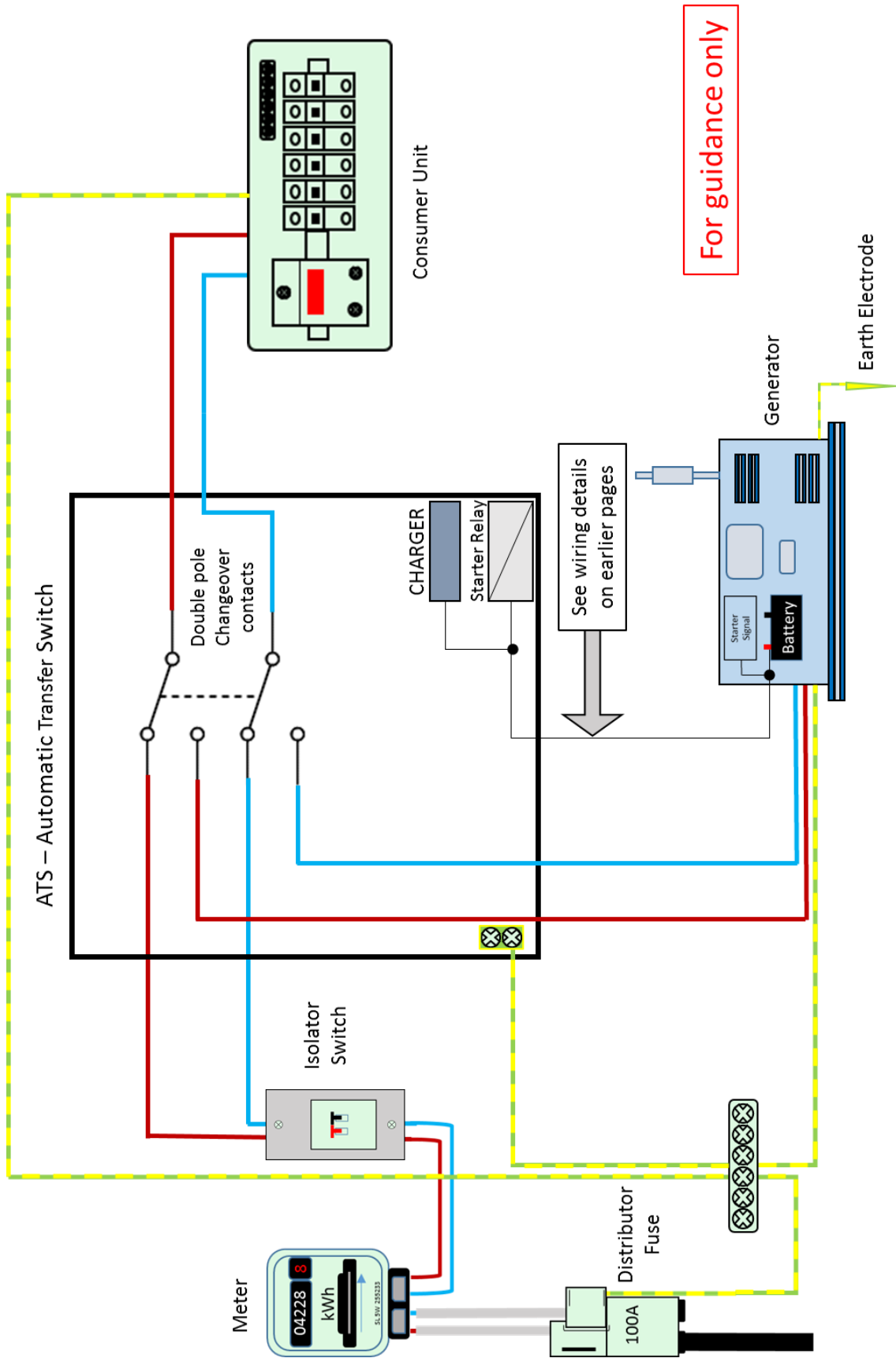


6.1.6. 3000 rpm machines – GENCONTROL ATS N.B. – Cable colours are for indication purposes only.

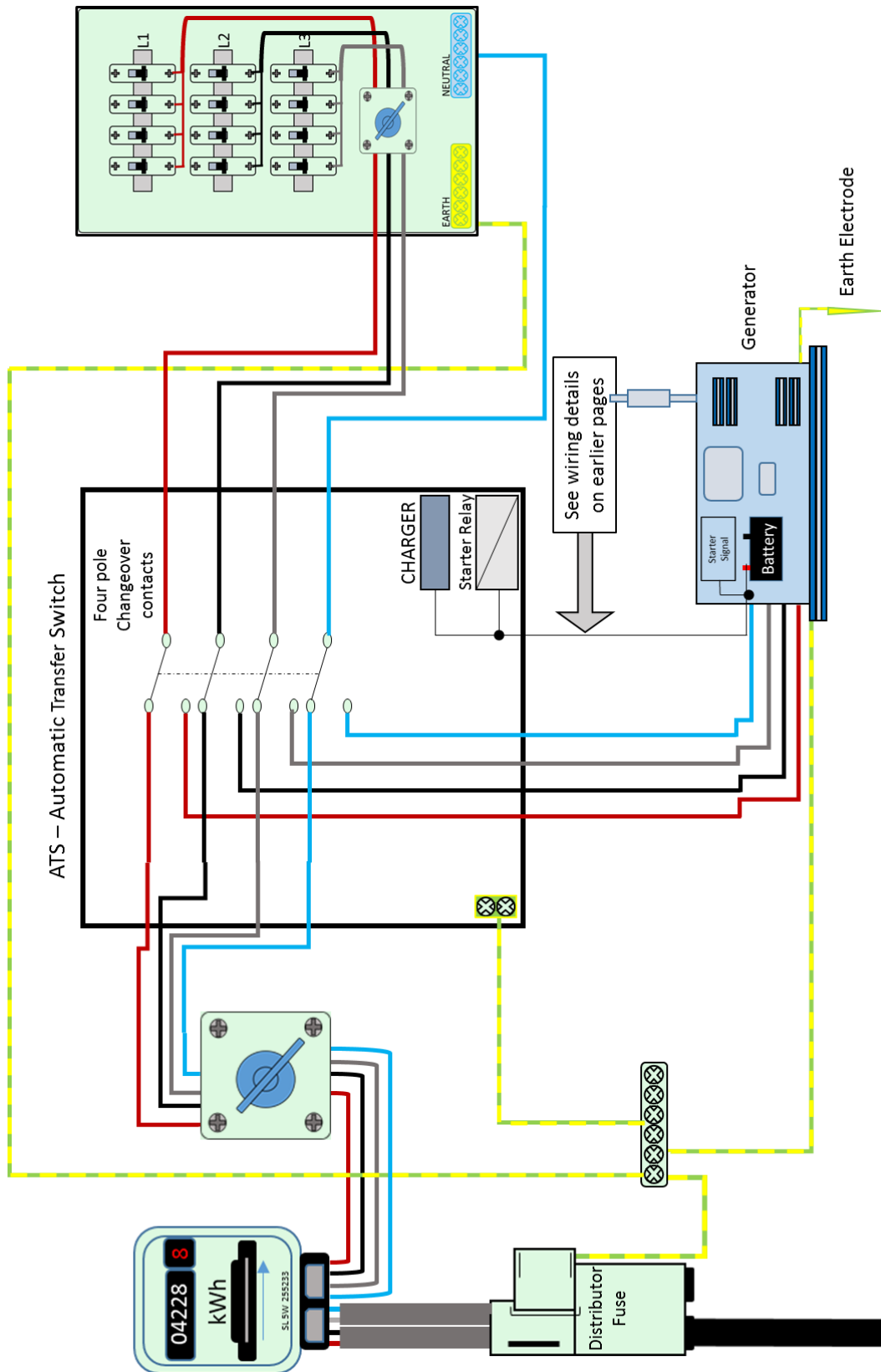
Connection diagram for BLADES 100 ATS Communication cable
To suit DHY12000SEV2 – BLADES 100 ATS



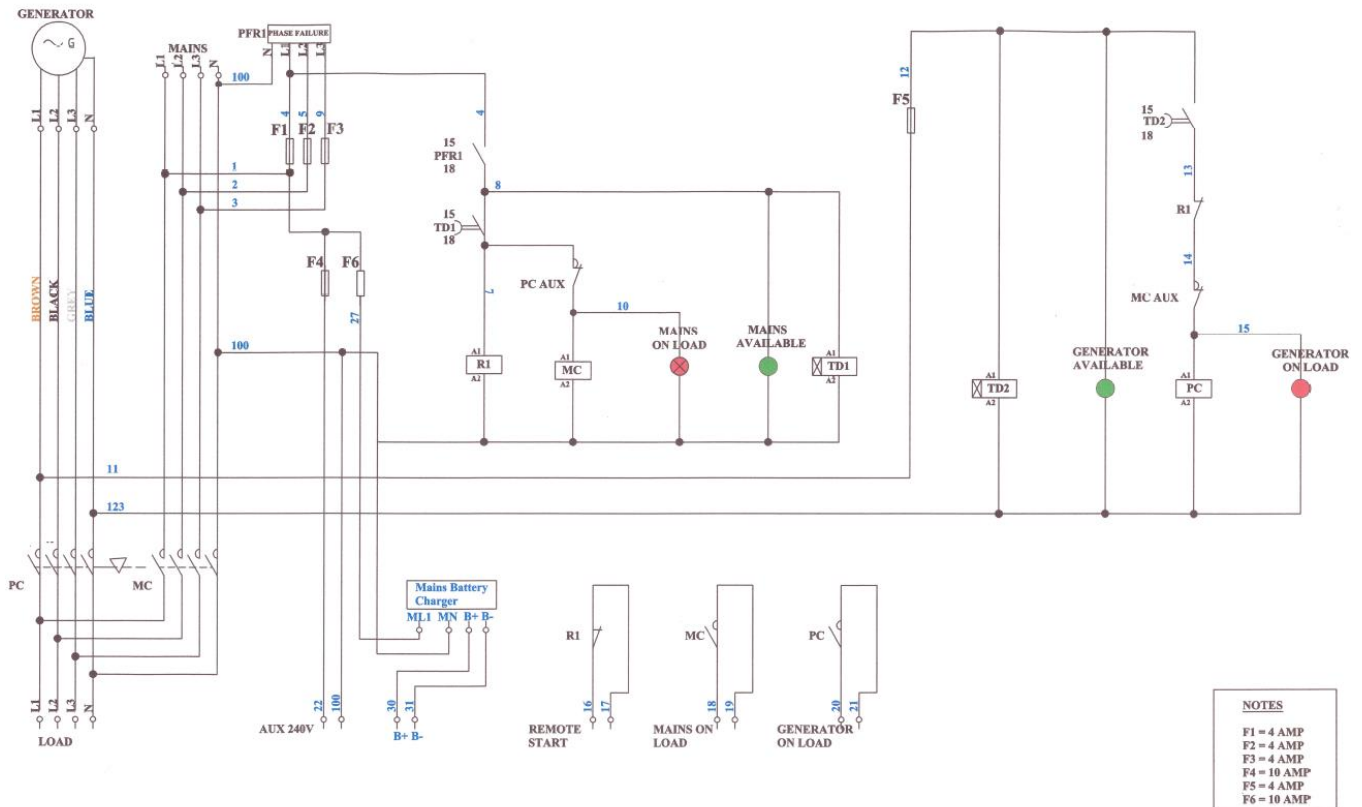
7. OVERALL SCHEMATIC – SINGLE PHASE INSTALLATION



8. OVERALL SCHEMATIC – THREE PHASE INSTALLATION



9. BLADES SCHEMATIC



10. CONTACT DETAILS

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