



EMC INFORMATION REQUIRED FOR QUOTATION

To help us understand your requirements and provide an accurate quotation, the following information is generally required for EMC Testing:

- Model name / number.
- Dimensions and weight.
- Power supply requirements.
- Brief description of the functionality of the system, including details of the environment where the system will be used.
- Test specification required (if known). We can advise if unknown according to the functionality of the equipment and the intended environment(s) it will be used in.
- Signal or I/O cable arrangements – we need to know the number of cables between individual enclosures of the system, and cables to/from the boundary of the system.

For each cable we will need to know:

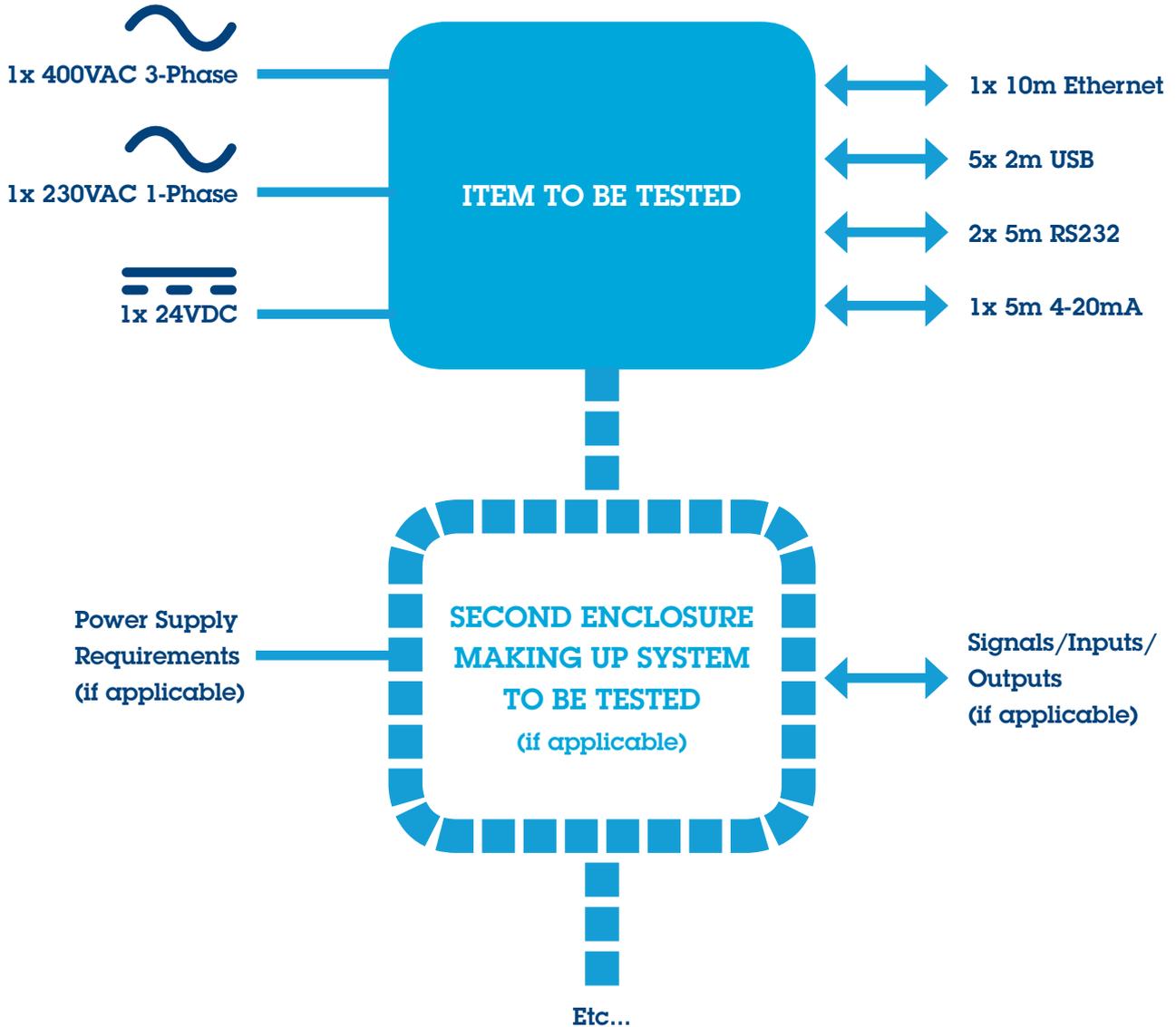
- Type
- Length
- Shielded or unshielded
(For example: 20m CAT6 Ethernet, 10m Shielded RS232, 1.8m unshielded USB, etc.).
- If unshielded, we also need to know the number of cores.
- Number of operating modes
(For EMC testing purposes, we would recommend testing in a worstcase mode of operation).

- Confirmation of the highest fundamental frequency of any internal clock/oscillator/processor.
- Details of what to monitor for confirmation of correct functionality during immunity testing, and how to do this (visually, via support laptop, or by any other means).
- Details of any wireless devices incorporated in the system (Wi-Fi, Bluetooth, GSM, etc.). If present, we require confirmation that these are pre-approved devices installed in accordance with the manufacturer's instructions – see the Radio RF905 form for guidance.
- Confirmation of the electrical cycle time of the equipment – in particular whether we can monitor the system for correct functionality in a 3 second window. This is important because the Radiated RF and Conducted RF immunity tests are performed across a defined frequency range at 1% frequency increments, with the applied RF field applied for a minimum of 3s at each increment. It is not a problem if it takes longer to verify performance, but this will increase the time needed to perform the test and hence increase the cost.
- If possible, please provide a data sheet or basic block diagram of the system, to show hardwired connections to/from the equipment and between enclosures of the system. See the diagram overleaf as a basic example.

For further information on EMC Testing please contact one of our engaged experts.



Typical Block Diagram for EMC Testing



Please advise if signal cables are shielded or not, and if unshielded, the number of cores.

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