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# Overview of MasterMinder FMC Data Cable Communication System

The FMC data cabled system utilises a 130kHz communications signal injected onto dedicated communication cabling to communicate with the attached emergency luminaries.

5 core TPS is used for maintained fittings and 4 cores for non-maintained fittings.

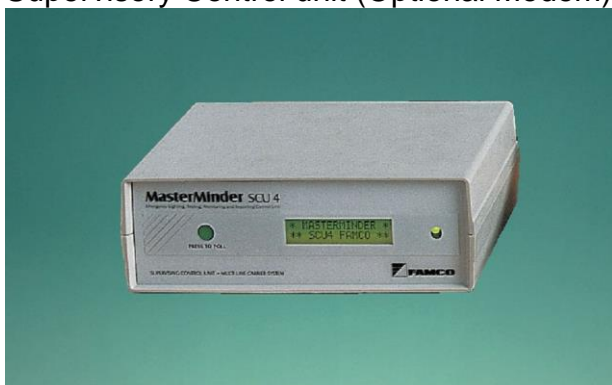
Two of the core are used for dedicated communication.

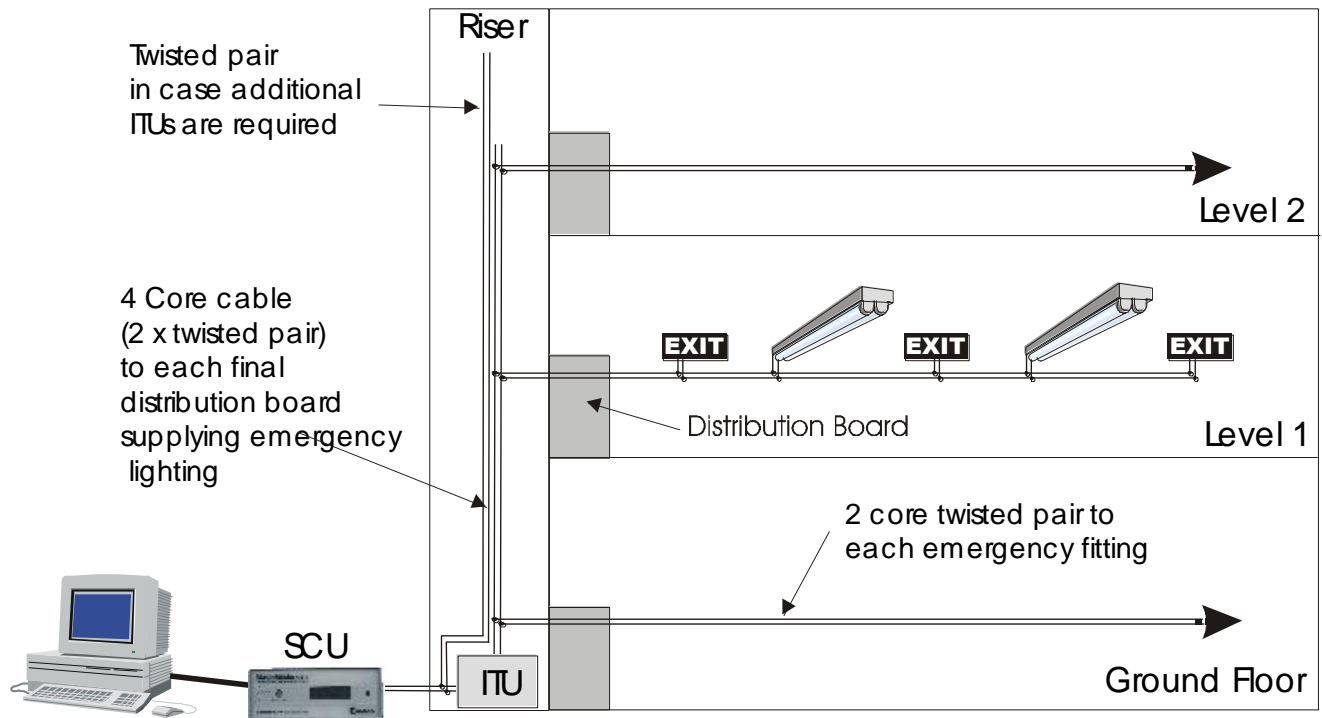
They are not polarity sensitive.

ITUs (Intelligent Transponder Units) are added to facilitate communication. The SCU communicates with each ITU via a dedicated cable (see figure below). The ITUs utilise the signal injected onto the dedicated communication cable to communicate with emergency luminaries. These fittings, each of which is uniquely numbered during commissioning, can be addressed individually, in groups, or as a total system from one or occasionally from several points. Each fitting, after being addressed, sends data back to the SCU via the dedicated communication cable and ITU.

More than one ITU can be used – a 4 core cable (2 x twisted pair) should be run to each final distribution board supplying emergency fittings – 2 of the conductors are available if an additional ITU needs to be installed.

## Supervisory Control unit (Optional Modem)





ITU-FMC

