

Cabling & Networking



Omnicare

GENERAL INFORMATION:

- There are two main components - the master control panel(s) and the remote units.
- Remote units are wired in a ring circuit configuration and are 'self-learning', with an auto-commissioning feature.
- The ring circuit technology enables continued operation in the event of a cable break.
- Any combination of remote units can be linked to the control panel on a single wiring loop.
- The master control panel is typically wall mounted in a central control room.
- Remote units are wall mounted in locations such as refuge areas, stairwells, fallback positions, corridors and other 'gathering' points, at a height easily reached by users (see 'MOUNTING POSITION').
- More than one master panel can be placed on the ring circuit, thus allowing control of local areas.

SYSTEM REQUIREMENTS:

- Fire rated enhanced four core, colour coded cable with a screen must be used for fire fighting systems.
- Standard fire resisting cables could be considered suitable for:
 - EVC systems for use in disabled refuges but not for fire-fighting in (a) sprinklered buildings; (b) unsprinklered buildings less than 30m in height, provided that evacuation takes place in three or fewer phases.
 - Underground sections of cabling at sports and similar venues.
- Up to 200m cable run between remote units and master control panel as standard.

Omnicare is an emergency voice communication system that allows disabled refuge, fire telephones, emergency/steward telephones and disabled toilet alarms to be connected to one master control panel. VIGIL Omnicare has been designed and built to meet BS9999:2008, BS5839-9:2011 and BS8300:2009 (for the disabled toilet alarm).

- A repeater unit (BVOCRIF) must be used if the distance between remotes exceeds 200m.
- Disabled refuge, advance disabled refuge, fire telephone, emergency/steward telephone, combined DRS/fire telephone and toilet alarm units can be placed on the same loop.
- Typically 20-30 remotes per loop.
- Repeater units (BVOCRIF) are used to connect the toilet alarms (DTAKIT) to the system. Up to two (3-part) DTAKITs can be connected to a BVOCRIF. (Alternatively one DTAKIT with an additional pull cord can be installed. Useful for rooms with two points of call, e.g. a toilet cubicle with a shower area.)

MOUNTING POSITION - BS5839-9:2011 RECOMMENDS:

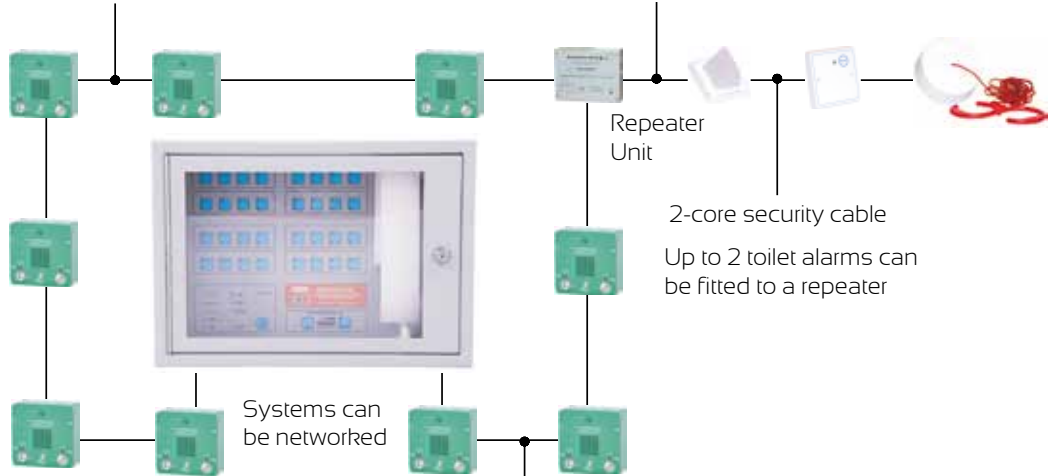
- The vertical centre of a master control panel should be mounted at a height of 1400-1500mm for a standing operator; or within reach of the operator's normal position if seated.
- The master control panel should be installed in an area of low fire risk.
- Outstations should be placed with the vertical centre at a height of 1300-1400mm; except in refuges where they should be located at a height of 900-1200mm. They should be located where background noise is normally low.
- Our combined fire telephone/DRS unit has been designed to allow appropriate mounting heights for both units. The centre point of the combined unit should be mounted at 1235-1330mm.
- Within a sports, or similar, venue no-one should have to travel more than 30m to reach the nearest outstation.

TYPICAL SYSTEM AND NETWORKING SOLUTIONS:

Enhanced 1.5mm 4-core fire rated cable (standard fire resisting cable may be used for some systems refer to BS5839-9)

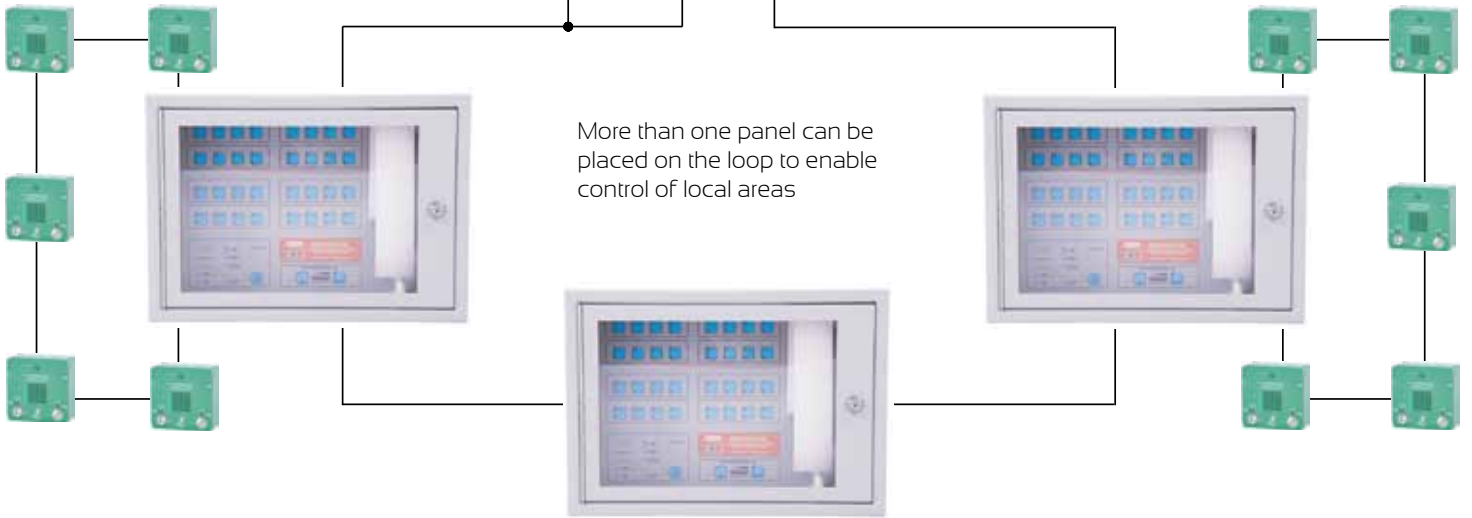
1.0mm 2-core screened cable

Any combination of outstation type can be placed on a single loop (typically 20-30 units)



Enhanced 1.5mm 4-core fire rated cable

More than one panel can be placed on the loop to enable control of local areas



The master panel must be large enough to see all the outstations on the system



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