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EmerCall 8 Line Exchange

The **EmerCall** Emergency Voice Communication System (EVCS) is a fixed, secure, bi-directional, full duplex voice communication system to assist fire fighters in an emergency in high rise buildings or large sites where radio communication may not work, and covers the operation of both fire telephones and disabled refuge systems. Where both systems are fitted to a building BS5839 Part 9:2003 specifies these should form a single system.

The **EmerCall** EVCS comprises of three functional blocks, the master handset (**EmerCall** 2572001), the eight line exchanges (**EmerCall** 2572002) and outstation handsets (**EmerCall** 2572003, 004, 005 & 006), with the quantities of these basic units being adjusted to suit the application.

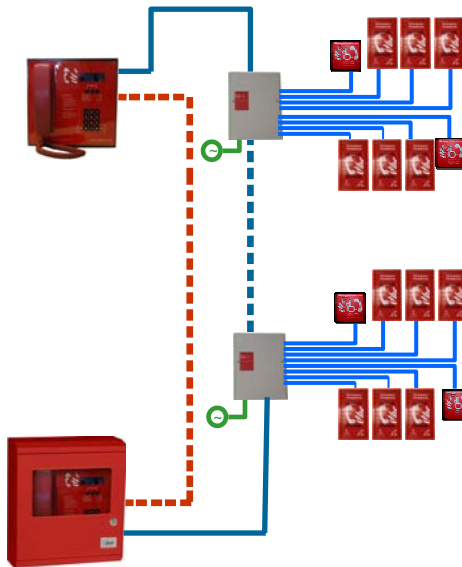
EmerCall Exchange Features:

- BS5839 Pt 9:2003 compliant
- Controls up to 8 independent lines
- Mains powered
- Built in monitored 1A charger for 12V SLA batteries
- Full duplex audio
- Up to 32 exchanges per system
- Full line monitoring
- Serial port for configuration or updates
- Dry contact for fault or "in use" indication
- Dual network ports
- Provides remote power for **EmerCall** Master Handset 2572.001
- Twelve status LEDs
- Compact design for riser mounting

EmerCall 8 Line Exchange - 2572002

Fire Telephones & Disabled Refuge

EmerCall 8 Line Exchange - 2572002



Using network communications combined with subscriber line telephone techniques, **EmerCall** provides large scale cable savings, while not requiring a dedicated rack room to house a central exchange.

Each exchange unit sits on a data highway and is locally powered, with internal battery backup from a monitored, maintained sealed lead acid battery. Up to eight lines can be connected to each distributed exchange, and each line is fully monitored for Open, Short or Earth faults.

The network comprises a line or ring of 8 cores (see schematic), each leg can be up to 500m depending on cable type. A ring topology is recommended by BS5839 pt9:2003.

Line cables consist of a single two core enhanced cable, either soft skin types or MICC and only 1mm² CSA is required.

Up to 32 **EmerCall** 2572002 Line Exchanges can be fitted to an **EmerCall** system giving a maximum system size of 256 independent lines.

The compact case is made from powder coated Zintec and is fitted with 20mm cable knockouts for all cables needed, and also provides space for the system backup 12V SLA battery.

Fire Telephones & Disabled Refuge

<p>Physical:</p> <p>Height: 296mm Width: 210mm Depth: 80mm Weight: 1.6kg Material: Zintec, texture powder coated RAL 7032</p>	<p>Network Cables:</p> <p>Grade: Enhanced Cable (per leg): 1 off four pair or 2 off four core 1mm² CSA soft skin or 4 off 1 pair MICC twisted Distance (per leg): 500m soft skin types, 300m MICC twisted Monitoring: Data & Phantom Voltage</p>
<p>Power Supply:</p> <p>Voltage: 230V AC±20% Current: 11mA Battery: 12V SLA 3.2AH Charger: 1A controlled impedance Monitoring: Open, short & high impedance cell</p>	<p>Outstation Handset Cables:</p> <p>Grade: Enhanced Cable (per Line): 1 off 2 core (twisted for MICC) Distance (per leg): 500m soft skin types, 300m MICC twisted Monitoring: DC open, short & earth</p>
<p>Processing:</p> <p>Architecture: AVR RISK Clock: 16MHz Memory: 4K Ram 20K EEPROM 128K Flash Monitoring: 125ms Asynchronous Watchdog Checksum on EEPROM & Flash</p>	<p>Indication & Controls:</p> <p>Fault LEDs: 9 off yellow (general, panel, PSU, 8 lines) Status LEDs: 3 off green (AC & DC), healthy Settings: 8 way DIP switch</p>
	<p>Standards Compliance:</p> <p>EMC: EN55103-1, EN55103-2 LVD: EN61000-3-2, EN61000-3-3, EN60950 Product Family: BS5839-pt9, BS5588-pt8</p>

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