DIRECT BRIGADE ALARM (DBA)

FDAS & EWIS Cable Segregation Guide

- **Introduction**

This document is developed as a good practice guide to assist a fire alarm agent/installer/contractor and the building and construction industry with FDAS & EWIS cable segregation requirements.

Where DBA or Fire Alarm Monitoring is required as per *AS 1670.3* and **NCC** *Specification E2.2a Smoke detection and alarm systems*, clause *8. System monitoring*, this guide becomes mandatory.

This guide should be read in conjunction with the **AS/CA S009, AS 1670 Part 1 & 4** and **DBA Connection Code**.

- **AS/CA S009 Requirements for cable segregations**

8.7   Fire detection and fire alarm system cables

Cables and Cable support systems **should not be installed** above fire detection and fire alarm system Cables.

> Note 1: Where fire detection and fire alarm system Cables are required to comply with the degrees of protection specified in AS/NZS 3013, the Cables should be installed in a manner such that the collapse of other Cabling systems (e.g. due to heat or fire) will not compromise the fire detection and fire alarm system Cabling.
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> Note 2: Cables associated with a fire detection and fire alarm system normally have a red sheath or permanent red markers on the sheath at regular intervals.

16.3   Separation from LV power cables

16.3.1   General

A Customer Cable that contains Electrically Conductive Elements, other than an undercarpet Cable, **shall** be permanently separated from any LV Power Cable by one of the following methods:

(a)   A minimum distance of 50 mm.

(b)   Subject to the requirements of Clause 16.3.2, a barrier of durable insulating material or metal.

(c)   A timber or metal stud, nogging, joist, bearer or rafter of any thickness.

- **Application**

The above AS/CA S009 requirements are applicable in the following:
1. New building constructions, new projects.
2. Existing buildings subject to renovation.
3. Existing buildings where access into the ceiling is accessible and where FDAS & EWIS comply with the latest standard.

Built Environment Branch l 20 Southport Street West Leederville WA 6007 l PO Box P1174 Perth WA 6844
Tel (08) 9395 9300 l dba@dfes.wa.gov.au l www.dfes.wa.gov.au
ABN 39 563 851 304