

# CHAPTER 42

## ARC FAULT DETECTION DEVICES

### 421.1.7



Arc Fault Detection Devices are recommended for the specific purpose of providing additional protection against fire caused by arc faults in 230V AC final circuits.

AFDDs should be installed at the origin of the circuits.

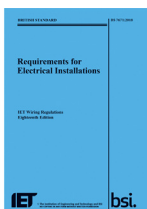
#### Incidents of Fire

Year	Electrical Distribution	Electrical Appliances	Combined Total
2012/13	8400	6428	14828
2013/14	8099	6061	14160
2014/15	7812	5834	13646
2015/16	7719	5634	13353
2016/17	7822	5525	13347
			69334

Government statistics show a continuing trend of fires in electrical distribution and electrical appliances.

AFDDs can be used in:

- Premises with sleeping accommodation
- Locations with a risk of fire, because of the nature of activity involves flammable materials
- Structures made from combustible materials
- Fire propagating structures e.g. high rise buildings
- Locations with irreplaceable goods: archives, museums etc



For full details see BS7671 IET Wiring Regulations

