

8.9.6	Earthing system and equipotential bonding	50
8.9.7	Lightning and Overvoltage Protection	51
8.10	Power Factor Correction	52
8.11	Motor Installations	53
8.12	Junction Boxes	53
8.13	Cable Entries	53
8.14	Cable Glands	53
8.15	Cables.....	53
8.15.1	Power cables	54
8.15.2	Signal cables	55
8.15.3	Lighting cables.....	55
8.15.4	Earthing and bonding cables	55
8.16	Cable Routing	55
8.16.1	Cable segregation.....	55
8.16.2	Cable trays, ladders and trunking.....	56
8.16.3	Conduit systems	56
8.16.4	Cables in ground	56
8.16.5	Installation of cables	57
8.16.6	Cable identification	58
8.17	Security Systems	58
8.17.1	CCTV System	58
8.17.2	Fire Fighting System.....	66
8.17.3	Telephone System.....	68
8.18	Tools and Maintenance Equipment.....	68
8.19	Control and Monitoring System.....	70
8.19.1	General system description	70
8.19.2	Architecture (System Architecture)	75
8.19.3	Operation Interface.....	77
8.19.4	Software development environment	78
8.19.5	Engineering with Multiple User.....	78
8.19.6	Security	79
8.19.7	Operator Screens	79
8.19.8	Alarms and Events	82
8.19.9	Trends.....	85
8.19.10	Historical Trend Data Analysis View	87
8.19.11	Reports	87
8.19.12	Standards and Approvals.....	91