

DIN EN 1366-11:2018-07 (E)

Fire resistance tests for service installations - Part 11: Fire protective systems for cable systems and associated components

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Test equipment	9
4.1	Furnace	9
5	Test conditions	9
5.1	Heating conditions	9
5.2	Pressure conditions	9
6	Test specimen	9
6.1	Dimensions	9
6.2	Number of tests	9
6.3	Design	9
7	Installation of test specimen	10
7.1	Fire protective system with cables	10
7.2	Fire protective systems with busbars	11
7.3	Special cases	11
8	Conditioning	12
9	Application of instrumentation	12
9.1	Furnace thermocouples (plate thermocouples)	12
9.2	Preheating inside the fire protective system	13
9.3	Additional thermocouples	13
10	Test procedure	13
10.1	General	13
10.2	Power supply	13
10.2.1	General	13
10.2.2	Continuity and short circuit checking arrangement for power cables	14
10.2.3	Continuity and short circuit checking arrangement for signal/control cables	14
10.2.4	Continuity and short circuit checking arrangement for busbars	15
11	Performance criteria	15
12	Test report	16
13	Field of direct application of test results	16
13.1	Types of cables	16
13.2	Application of test results of four-sided, three sided or two-sided fire protective systems	17
13.3	Assembly of fire protective system	18
13.4	Fixing of fire protective system to wall and ceiling	19

13.5	Types of cable management systems / busbars and load inside the fire protective system	20
13.6	Types of suspension device	20
13.7	Adjoining construction	21
13.8	Dimension of fire protective systems	22
13.9	Orientation of fire protective systems for cables and busbars	22
13.10	Special cases	22
13.10.1	Ventilation devices and inspection hatches	22
13.10.2	Removable lid	22
13.10.3	Penetrating systems	22
Annex A (informative)	Thermocouples inside the fire protective systems	29
Annex B (informative)	Preheating	30
Annex C (informative)	Performance criteria for communication/data cables	31
Bibliography		32