

Test: Classification of the reaction to fire performance of electric cables

Standard: EN 13501-6

ČSN EN 50399:2012

Heat release and smoke production measurement on cables during flame spread test

ČSN EN 60332-1-2

Test for vertical flame propagation for a single insulated wire or cable

Cable: HXH FE180/E90 5x16 RM IKK

Manufacturer: TOV Interkabel Kiev

Date of test: 20.06.2017

Material:

Sheath:

Promvulk 23633

Producer:

PROMINVEST PLASTIC

Determination of the number of test pieces:

Extruded bedding:

Promvulk 33100

Producer:

PROMINVEST PLASTIC

Diameter 23.1 mm

Insulation:

MF 8170

Producer:

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$$N = \text{int} \left(\frac{300 + d_c}{2 \times d_c} \right)$$

Number of cables: 7 ks

Mounting: spaced

Space: 20 mm

Classification criteria: EN 13501-6, class B2ca

Test result: FS = 0.68 m

FS ≤ 1,5 m

HRR_{avg max} = 11.5 kW

Peak HRR ≤ 30 kW

SPR_{avg max} = 0.007 m²/s(s1) SPR ≤ 0,25 m²/s

(additional classification)

THR = 7.2 MJ

THR_{1200s} ≤ 15 MJTSP = 4.5 m²(s1) TSP_{1200s} ≤ 50 m²

(additional classification)

FIGRA = 57.5 W.s⁻¹FIGRA ≤ 150 W.s⁻¹

FDP flaming: yes, for not more than 10s

d1

(additional classification)

Flame propagation H = 109 mm

H ≤ 425mm

Classification according to EN 13501-6:

B2_{ca} (s1,d1)

Annex A: Test

Annex B: Routine calibration

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