

**CABLE BUNDLES classification ≤ 121 mm**

Fire performances are valid for for range of cable group + max. Cu mm<sup>2</sup>:

**cable group 1 + 2 + 4 + 5**

dØ up to 31 mm

**also cables in plastic conduits**

dØ up to 110 mm

**suitable Firetect products within classification:**

Graphite sealant DoP CPR-14/0273	Acrylic or PA sealer DoP CPR-14/0273	Cable transit DoP CPR-14/0251	Flex plug DoP CPR-14/0251	FMU collar DoP CPR-14/0251
	results max. <a href="#">EI 120 in wall 1+2</a> <a href="#">EI 240 in wall 3</a> <a href="#">EI 240 in floor 5</a>		results max. <a href="#">EI 120 in wall 1+2</a> <a href="#">EI 240 in wall 3</a> <a href="#">EI 240 in floor 5</a>	
	<a href="#">EI 90 in wall 1+2+3</a> <a href="#">EI 180 in wall 3</a> <a href="#">EI 180 in floor 5</a>	results max. <a href="#">EI 120 in wall 1+2+3</a> <a href="#">EI 120 in floor 5</a>		
results max. <a href="#">EI 120 in wall 1+2+3</a> <a href="#">EI 120 in ceiling 4</a> <a href="#">EI 240 in floor 5</a>	<a href="#">EI 120 in wall 1+2+3</a> results max. <a href="#">EI 180 in floor 5</a> also on <b>PA board</b>	results max. <a href="#">EI 90 in wall 1+2+3</a> <a href="#">EI 120 in floor 5</a>		<a href="#">EI 120 in wall 1+2+3</a> <a href="#">EI 240 in floor 5</a>
joint details: min. W x D, default: walls: 10 x 25 mm, apply on 2 sides floors: 15 x 25 mm, apply on 2 sides		position centrally in construction mount with Acrylic sealant put loose rock wool ≥ 100kg/m <sup>3</sup> in transit on 2 sides	position centrally in construction	default: walls: apply on 2 sides floors: apply on 1 side apply smoke seal Acrylic

supporting construction

Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

Max. opening in constructive element:  
see principle detail.  
Use PA board if opening is larger; see How-to-read.

Penetration services must be supported;  
support distance walls max. 500mm  
support distance floors max. 400mm

bundle size      cable specs      construct. type

<b>max. Ø 40 mm</b>	cable assembly within max. Cu mm <sup>2</sup> ; allowed cable groups:	flexible + rigid walls + rigid floors
	group 1 - small sheathed group 2 - medium sheathed group 4 - data + fibre optic conduit, plastic	

<b>max. Ø 55 mm</b>	cable assembly within max. Cu mm <sup>2</sup> ; allowed cable groups:	flexible + rigid walls + rigid floors
	group 1 - small sheathed group 4 - data + fibre optic conduit, plastic	

<b>max. Ø 121 mm</b>	cable assembly within max. Cu mm <sup>2</sup> ; allowed cable groups:	flexible + rigid walls + rigid floors
	group 1 - small sheathed group 2 - medium sheathed group 4 - data + fibre optic conduit, plastic	

- 1: flexible wall ≥100mm
- 2: rigid wall ≥100mm
- 3: rigid wall ≥150mm
- 4: flexible ceiling ≥150mm
- 5: rigid floor ≥150mm

▶ INDEX

PE + PP + PVC

plastic cable conduits

PP-R

PP-MD

PP-MX

aluPE-X

PE-Xa

copper

steel

steel conduits

trays + ladders + wire mesh

cables + bundles

fire dampers

air transfer grilles

duct cladding

linear joints

socket boxes

blank seals

EN norms for plastic pipes

acoustical

environmental

## How-to-read

charts Field of Application Firetect® fire rated building products

### certification

Use FoA charts as *guideline* to quickly identify suitable Firetect products within classification.

**Always apply acc. details as stated per principle detail; see tab per product on product web page.**

Product certification of CE marked building products is done by DoPs (Declaration of Performance), rather than test reports; more info at [www.firetect.eu](http://www.firetect.eu). Charts do not include all test data. Contact KLF for non-standard (EI) requirements: +31 345 63 97 97 or [info@klf.nl](mailto:info@klf.nl).

### cable penetrations

type of **service**

all steel (galvanised) cable trays + ladders, non-perforated + perforated

all steel (galvanised) mesh wire cable trays

EI

fire resistance in minutes (integrity + insulation)

### minimum working spaces

	configuration	horizontal	vertical
Min. distances from opening edges	LARGE	35mm	30 mm
	MIXED	30 mm	0 mm
Min. distances between services	LARGE	5mm	100 mm
	MIXED	20 mm	20 mm

### cable groups

group 1 - small sheathed	max. Ø 21mm
group 2 - medium sheathed	max. Ø 50mm
group 3 - large sheathed	max. Ø 80mm
group 4 - data + fibre optic	max. Ø 100mm bundle
group 5 - non-sheathed	max. Ø 23mm
conduit, steel or plastic	max. Ø 16mm

### max. opening

see principle detail

### Note

Support cable services; support distance: see principle detail.

### blank seals

EI

gaps + openings **without any service penetrations**

fire resistance in minutes (integrity + insulation)

[up to EI 120](#) for application in walls + floors

### disclaimer

Consult [www.firetect.eu/download](http://www.firetect.eu/download) for updates; product development + fire tests are ongoing processes at KLF. Mentioned brand names are for illustrative purpose only, to indicate type of material tested.

Firetect®

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