Halogen-free cable routing systems

HALOGEN
FREE

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BETTERMANN

Halogen-free cable routing systems

Low smoke gas production, low corrosion, safe. Halogen-free installation materials belong in any fire protection plan.

This is what it's all about:
- If there is a fire, halogen-free materials reduce the amount of toxic smoke gases.
  They do not create any corrosive substances.
- In many public buildings, insurance companies require halogen-free materials to protect people and property.
- Particularly in public areas, halogen-free OBO cable routing systems are a safe choice.

Dangerous smoke gases from plastics

Plastics have good insulating properties and can be processed easily. However, during a fire, they can create aggressive gases. A danger to people and property.

Heavy smoke creation

Flame-protection agents, based on halogen compounds such as fluorine, iodine, chlorine and bromine, are used to keep the flammability of PVC low. If there is a fire, this safety aspect becomes a dangerous disadvantage: Toxic smoke gases, such as carbon dioxide and carbon monoxide, are created. These usually endanger people far faster than flames and heat. For example, in the fire catastrophe at Düsseldorf Airport in 1996 or in the Tauern Tunnel in 1999, considerable quantities of burned plastics contributed to the formation of smoke and hazardous substances. A highly toxic mixture, which can be lethal after just a few breaths.

Corrosive fire gases

PVC releases corrosive hydrogen chloride gas, which, in conjunction with water, forms hydrochloric acid. Hydrochloric acid has a highly caustic effect on the respiratory channels. As an electrically conductive substance, it can cause short circuits and destroy devices. Further corrosive combustion gas products are cyanide and ammonia. In addition, extremely toxic dioxins can damage the building to such an extent that the reconstruction of parts of the building is very expensive or even impossible.

Therefore, from a fire protection perspective, halogen-free installation materials are a safe alternative. The Association of Property Insurers also prescribes halogen-free materials for building areas in which many people meet. The term "halogen-free" excludes any organic chlorine or bromine compounds.

The new standard for cable routing with plastic trunking

OBO halogen-free cable routing systems protect people, the environment and property. All the products are made from high-quality PC/ABS (polycarbonate/acrylonitrile butadiene styrene). This material is one of the self-extinguishing plastics.

For safe cable routing, OBO can offer halogen-free WDKH wall and ceiling trunking, as well as halogen-free VKH wiring trunking for switching cabinet construction. A new feature of the product range is the Rapid 80 device installation system GKH, which is completely halogen-free, along with all of its fittings. OBO makes the three cable routing systems available in all the standard dimensions. They are easy to mount and are stable, are produced to a high level of quality and are dimensionally stable.

Rapid 80 GKH halogen-free
Rapid 80 device installation trunking allows flexible and quick access to energy and data on the wall. It is primarily used in public facilities and offices.

WDKH halogen-free
OBO wall and ceiling trunking ensures safe cable routing. It can be used as wall or ceiling trunking.

VKH halogen-free
OBO wiring trunking from our Dahl system ensures tidy, clear wiring in a switching cabinet.

The safety aspects

• Low smoke creation
• Low toxicity of the smoke gases
• Scarcely any release of corrosive gases
• Perfectly suited for public areas

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Overview wall and ceiling trunking

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	Wall and ceiling trunking	Internal corner	External corner	Flat angle	T piece	End piece
WDKH 10020						
System size* 10 x 20 mm	6175 37 5	6175 57 2	6175 61 2	6175 64 8	6175 68 4	6175 54 0
WDKH 15030						
System size 15 x 30 mm	6175 39 0	6175 57 8	6175 61 8	6175 65 4	6175 69 0	6175 54 6
WDKH 20020						
System size 20 x 20 mm	6175 40 0	6175 58 1	6175 62 4	6175 65 8	6175 69 4	6175 55 0
	6175 46 0	6175 96 4	6176 00 0	6176 03 6	6176 07 2	6175 92 8
WDKH 30045						
System size 30 x 45 mm	6175 40 5	6175 59 0	6175 62 6	6175 66 2	6175 69 8	6175 55 4
	6175 46 3	6175 96 8	6176 00 4	6176 04 0	6176 07 6	6175 93 2

Colours: ☐ Pure white ▨ Light grey

* The system size may deviate from the dimensions in detail. You can find precise measurements in our catalogue or on the Internet. | You can find our comprehensive overall system in our cable routing systems catalogue.

Overview wall and ceiling trunking

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	Wall and ceiling trunking	Internal corner	External corner	Flat angle	T piece	End piece
WDKH 40060						
System size* 40 x 60 mm	6175 41 0	6175 59 4	6175 63 0	6175666	6175 70 2	6175 55 8
	6175 46 6	6175 97 2	6176 00 8	6176044	6176 08 0	6175 93 6
WDKH 60090						
System size 60 x 90 mm	6175 41 5	6175 59 8	6175 63 4	6175670	6175 70 6	6175 56 2
	6175 46 9	6175 97 6	6176 01 2	6176048	6176 08 4	6175 94 0
WDKH 60110						
System size 60 x 110 mm	6175 42 0	6175 60 2	6175 63 8	6175 67 4	6175 71 0	6175 56 6
	6175 47 2	6175 98 0	6176 01 6	6176 05 2	6176 08 8	6175 94 4
WDKH 60150						
System size 60 x 150 mm	6175 42 5	6175 60 6	6175 64 2	6175 67 8	6175 71 4	6175 57 0
	6175 47 5	6175 98 4	6176 02 0	6176 05 6	6176 09 2	6175 94 8

Colours: ☐ Pure white   ▨ Light grey   * The system size may deviate from the dimensions in detail. You can find precise measurements in our catalogue or on the Internet. | **You can find our comprehensive overall system in our cable routing systems catalogue.**

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	Device installation trunking*	Trunking cover, smooth	External corner cover Variable	External corner	External corner cover, smooth	Flat angle cover	Flat angle	Flat angle cover, smooth	Internal corner cover, variable	Internal corner	T piece	End piece	Separating retainer	Trunking clamp	Coupling
GKH70130 Trunking height 70 mm, trunking width 130 mm	6114 20 0	6114 21 0	6274 41 0	6114 22 0	6114 23 0	6274 42 0	6114 24 0	6114 25 0	6274 44 0	6114 26 0	6114 27 0	6114 28 0	6114 29 0	6288 64 0	6274 65 0
GKH70170 Trunking height 70 mm, trunking width 170 mm	6114 30 0	6114 21 0	6274 61 0	6114 32 0	6114 23 0	6274 62 0	6114 34 0	6114 25 0	6274 64 0	6114 36 0	6114 37 0	6114 38 0	6114 29 0	6288 64 0	6274 65 0

Colours: ☐ Pure white

* One coupling pair is mounted on one side for each trunking length. | You can find our comprehensive overall system in our cable routing systems catalogue.

Overview wiring trunking, halogen-free

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LKVH 50037	LKVH 50050	LKVH 50075	LKVH 75037	LKVH 75050	LKVH 75075	LKVH 75100	LKVH 75125
Trunking height 50 mm, trunking width 37 mm	Trunking height 50 mm, trunking width 50 mm	Trunking height 50 mm, trunking width 75 mm	Trunking height 75 mm, trunking width 37 mm	Trunking height 75 mm, Trunking width 50 mm	Trunking height 75 mm, trunking width 75 mm	Trunking height 75 mm, trunking width 100 mm	Trunking height 75 mm, trunking width 125 mm
6178 58 2	6178 58 5	6178 58 8	6178 55 2	6178 55 6	6178 55 9	6178 56 3	6178 56 6

LKV H H	KNW1	KNW2	KSN1	KSN22	AKZ	2064 GTPL 2M	2069 2M GTPL
Wire retainer	Riveting tool for KSN 1	Riveting tool for KSN 22	Spreading rivet 4.5 mm	Spreading rivet 6.5 mm	Release pliers	Support rail, perforated	Hat profile rail, perforated
6178 65 0	6178 52 7	6178 52 9	6178 52 0	6178 52 5	6178 53 5	1115 06 5	1115 66 9

Colour: ☐ Pure white   You can find our comprehensive overall system in our cable routing systems catalogue.

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