

Well protected.

HFT[®] Cable Management

halogenfree
flame retardant
temperature resistant



Enduring safety

Prevention pays off in the long run.

Proper planning begins with making provisions for the protection of human lives and valuable assets. With halogenfree cable management systems from Dietzel Univolt you are always on the safer side.

Your advantages:

- 1 minimum smoke release in case of fire
- 2 absolutely halogenfree
- 3 flame retardant
- 4 chemically resistant
- 5 temperature resistant
- 6 maintenance free
- 7 easy to install
- 8 insulating



HFT® - the Novelties in Brief



PVC

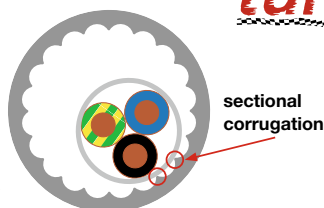


LSF0H

LSF0H versus PVC

LSF0H refers to an internationally recognised description of product properties that comply with increased safety requirements. Concerning conduit systems for electrical installations this means specific precaution against fires and consequential damages. Effectively this leads to higher safety for human lives, better protection of valuable assets and safeguarding the continuity of operations.

Less friction thanks to the Turbo effect:



sectional view:
conduit with cables

The Turbo Effect

The Turbo effect is an innovative conduit design developed by Dietzel Univolt that simplifies and enhances installation work. Inserting cables becomes faster and less strenuous without compromising the characteristics of standard conduits. The sectional corrugation reduces the friction between cable and conduit and helps installers to save time and cost - an explicit customer benefit.

UNIVOLT HFT® LSF0H Series

Safety in case of fires

Safety in case of fires is also a matter of proper planning. When exposed to fire, plastic materials like PVC release corrosive gases which are not only extremely toxic for human lives, but also attack building stock. Univolt's HFT® branded installation systems are the result of almost 30 years of permanent development. Their improved properties regarding safety and durability comply with the most advanced requirements in modern constructions. HFT® conduit systems are indispensable as a complement to halogenfree cables. Distinctive to conventional plastics they are suitable for a wider range of applications due to their thermal, mechanical and chemical characteristics.

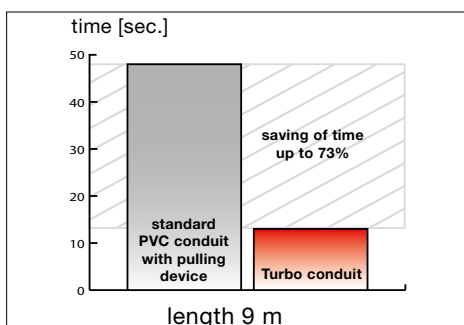
The LSF0H series is the most recent advancement of UNIVOLT's HFT® range and complies with the following relevant safety aspects:

- **LS (= low smoke):** no release of corrosive or toxic gases
- **F (= flame retardant):** impedes the propagation of fires, applicable for temperatures from -25°C to +105°C or beyond
- **OH (= zero halogen):** contains absolutely no halogens

UNIVOLT Turbo Technology

The Turbo design is a distinctive feature of installation conduits and has become most favoured by installers. Now it is also available for UNIVOLT's LSF0H series and helps users to save

Less time



Comprehensive provision and protection:

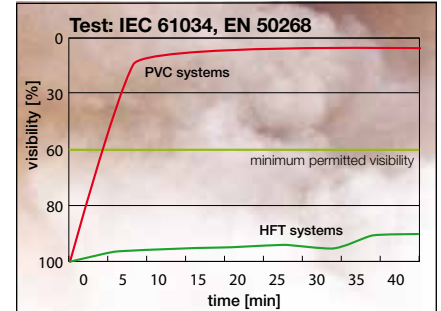
Safety for human lives deserves the highest priority in fire protection matters. Generating less gases and fumes, LSF0H conduits improve orientation and evacuation in case of fires.

Additionally, this minimises the danger of intoxication or suffocation which accounts for most casualties.

Protection of valuable assets is crucial for the prosperity of modern business.

Using LSF0H systems reduces the risk of negative impacts on building stock, sensitive technologies and information systems caused by toxic and corrosive gases.

Smoke emission, 3m Cube Test



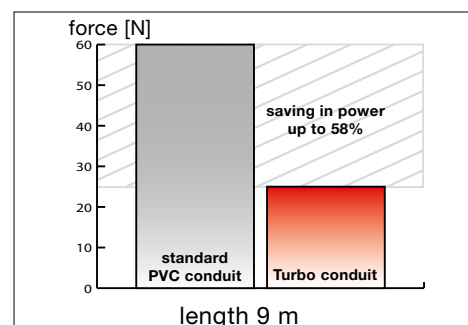
Dramatically less smoke formation:

UNIVOLT LSF0H conduits top IEC 61034 tests with excellent results.

Continuity of operations is an underestimated cost factor. Even minor fires can lead to shutdowns or significant disturbances, which usually result in subsequential costs beyond quantification. Meanwhile, several industries recognised the importance of this issue and apply LSF0H criteria for their installations.

time, effort and money. Compared with conventional conduits the Turbo products lead to lower frictional forces, hence shorter installation times for cabling work.

Less effort



Light Gauge (320N)



Material	Classification	Gauge	UV resistance	Temperature range
PP-Blend	EN 2243	> 320 N	△	-25°C/+105°C

In accordance with: IEC 61386-21, IEC 60423

Type	Specification	Colour	Sizes
HFIRM-Turbo	with moulded-on couplers, 3m length	light grey (RAL 7035)	16, 20, 25, 32
HFIR-Turbo	with plain ends, 3m length	white (RAL 9010)	16, 20, 25, 32

Type	Specification	Colour	Sizes
HFIRM	with moulded-on couplers, 3m length	light grey (RAL 7035)	40, 50
HFIR	with plain ends, 3m length	white (RAL 9010)	40, 50

Medium Gauge (750N)



Material	Classification	Gauge	UV resistance	Temperature range
PP-Blend	EN 3243	> 750 N	△	-25°C/+105°C

In accordance with: IEC 61386-21, IEC 60423

Type	Specification	Colour	Sizes
HFPRM-Turbo	with moulded-on couplers, 3m length	light grey (RAL 7035) or black (RAL 9005)	16, 20, 25, 32
HFPR-Turbo	with plain ends, 3m length	light grey (RAL 7035) or black (RAL 9005)	16, 20, 25, 32

Type	Specification	Colour	Sizes
HFPRM	with moulded-on couplers, 3m length	light grey (RAL 7035) or black (RAL 9005)	40, 50, 63
HFPR	with plain ends, 3m length	light grey (RAL 7035) or black (RAL 9005)	40, 50, 63

Heavy Gauge (1250N)



Material	Code	Mechan.	UV stabil.	Temp.
PC-Blend	EN 4442	> 1250 N	☑	-25°C/+90°C

In accordance with: IEC 61386-21, IEC 60423

Type	Specification	Colour	Sizes
HFBS	with plain ends, 3m length	black (RAL 9005)	16, 20, 25, 32, 40, 50

Material	Code	Mechan.	UV stabil.	Temp.
PC-ABS	EN 4422	> 1250 N	☑	-5°C/+90°C

In accordance with: IEC 61386-21, IEC 60423

Type	Specification	Colour	Sizes
HFES	with plain ends, 3m length	grey (RAL 7037) or black (RAL 9005)	16, 20, 25, 32, 40, 50

Light Gauge (320N)



Material	Classification	Gauge	UV resistance	Temperature range
PP-Blend	EN 2243	> 320 N	△	-25°C/+105°C

In accordance with: IEC 61386-22, IEC 60423)

Type	Specification	Colour	Sizes
HFX	in coils of 50m resp. 25m	light grey (RAL 7035) or white (RAL 9010)	16, 20, 25, 32, 40, 50, 63

Material	Code	Mechan.	UV stabil.	Temp.
PA	EN 2243	> 320 N	☑	-25°C/+105°C

In accordance with: IEC 61386-23, IEC 60423)

Type	Specification	Colour	Sizes
HFXS	in coils of 50m resp. 25m	grey (RAL 7001) or black (RAL 9005)	12, 16, 20, 25, 32, 40, 50, 63

Medium Gauge (750N)



Material	Classification	Gauge	UV resistance	Temperature range
PP-Blend	EN 3343	> 750 N	△	-25°C/+105°C

In accordance with: IEC 61386-22, IEC 60423

Type	Specification	Colour	Sizes
HFXP-Turbo	in coils of 50m resp. 25m	black (RAL 9005)	16, 20, 25, 32, 40, 50

Material	Classification	Gauge	UV resistance	Temperature range
PC	EN 3355	> 750 N	△	-45°C/+150°C

In accordance with: IEC 61386-22, IEC 60423

Type	Specification	Colour	Sizes
HFXP-HT	in coils of 50m resp. 25m	black (RAL 9005)	16, 20, 25, 32, 40, 50, 63

For special requirements

Light Gauge (320N)



Material	Classification	Gauge	UV resistance	Temperature range
Polyolefin	EN 2241	> 320 N	△	-25°C/+60°C

In accordance with: IEC 61386-21, IEC 60423, IEC 60092-101 clause 2.28.2

Halogenfree according to: IEC 60754 and EN 50267

Smoke density: Low smoke properties according to IEC 61034 and EN 50268

Type	Specification	Colour	Sizes
HFST	with plain ends, 3m length	white (RAL 9010)	20, 25

Available accessories and fittings for HFT® conduits



Clips and plugs

Couplers

Bends, elbows and tees

Saddles and spacer bar saddles

Box adaptors and conduit glands

Enclosure, distribution and outlet boxes

Details about HFT®

HFT® is a registered trademark and refers to installation systems with improved properties compared to conventional cable management. The halogenfree materials used for the production do not contain toxic or corrosive substances thus meeting the increased safety requirements of modern applications. Sourcing and processing the most appropriate and advanced raw materials are a key competence of our technical team.

Further benefits of UNIVOLT's LSF0H conduits

The new LSF0H series offers considerable improvements in addition to the existing advantages of our conduits:

- absolute resistance against oils, fats, acids, lyes, etc.
- especially suitable for installations in concrete
- bendable in cold condition
- smoke density reduced by up to 90% compared to PVC
- UV-stabilised
- yet easy to install

Projects

HFT® installation systems worldwide

Areas of application

HFT® systems are ideally suited for installations with an emphasis on the protection of human lives and valuable assets:

- high technology industrial plants, water treatment plants
- power plants, oil refineries and oil rigs, laboratories
- railway and underground systems, tunnels, parking houses
- elevators and emergency plants, transmitting stations
- hospitals, schools, hotels, shopping centres
- sports stadiums, conference and event centres
- museums, theatres, libraries, cultural monuments
- computing and telecommunication centres
- airports, railway stations
- automotives, ships, aircrafts, trains
- air sampling systems
- robotic systems and sensitive machinery



High-tech facilities



Rolling stock



Airports



Sports arenas



Oil rigs



Railway stations



Event centres



Safety matters:

- ⇒ higher safety for human lives
- ⇒ better protection of valuable assets
- ⇒ safeguarding continuity of operations

When human lives are at risk, there are no second chances.

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