

FRÄNKISCHE

ELECTRICAL SYSTEMS



Transit
Tránsitos

**FIRE LINE
DO NOT CROSS**



**FPKu-EM-F-LS0H Low Smoke
Fire Safety**



FPKu-EM-F-LS0H Low Smoke – Low Smoke Plastic Conduits

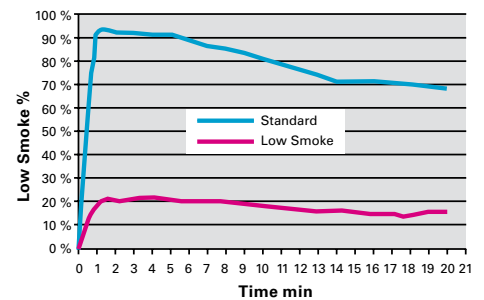
The first low smoke plastic conduit, available in straight lengths, made by FRÄNKISCHE for improved fire safety.

FRÄNKISCHE achieved a significant breakthrough in safety for electrical installations with its FPKu-EM-F-LS0H Low Smoke. In the event of a fire, smoke rapidly hinders visual sight, allowing for light permeability of only 10% (90% smoke density). Our new Low Smoke pipe guarantees 70% light permeability (30% smoke density).

70% light permeability

Less smoke enables people to find fire escape routes, facilitates the work of rescue personnel and helps prevent carbon monoxide (CO) poisoning.

When designing our new product, we relied on innovative design and our existing range of products of halogen-free, low smoke FFKuS-EM-F-H0 and FFKu-EL-F-H0 corrugated conduits. The new FPKu-EM-F-LS0H Low Smoke surface installation conduit is the ideal addition to our existing range of products. The abbreviation 'LS0H' stands for 'Low Smoke Zero Halogen'.



Smoke density is measured according to DIN EN 61034-1 and DIN EN 610354-2.

This product innovation is ideal for use inside public buildings, office buildings, airports, train stations and tunnels, where safety is top priority.

Halogen-free Low Smoke Conduits for Improved Fire Safety



FPKu-EM-F-LS0H Low Smoke

A halogen-free, low smoke plastic conduit, available in straight lengths. Suitable for surface installations. Provides temperature resistance from -45°C to $+120^{\circ}\text{C}$.



FFKuS-EM-F-LS0H Low Smoke

A halogen-free, low smoke corrugated plastic conduit. Suitable for installations in concrete. Provides temperature resistance from -45°C to $+105^{\circ}\text{C}$.



FFKu-EL-F-LS0H Low Smoke

A halogen-free, low smoke corrugated plastic conduit. Suitable for concealed installations. Provides temperature resistance from -5°C to $+105^{\circ}\text{C}$.



For Improved Fire Safety

FPKu-EM-F-LS0H Low Smoke

Type	Part No.	16	20	25	32	40	50	63
OD* [in mm]		16.0	20.0	25.0	32.0	40.0	50.0	63.0
ID [in mm]		13.0	16.8	21.5	28.0	35.5	45.2	57.8
In bundles of [in m]		111	111	57	57	21	21	21
Weight [in kg/bundle]		7.4	10.9	7.5	10.3	5.2	7.6	10.1
Pallet's content [in m]		7,992	4,995	3,135	2,052	1,407	798	504
Colour: gray	233.10. ...	..016	..020	..025	..032	..040	..050	..063
SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063
SBSKu-EM-LS0H bend	233.60. ...	..016	..020	..025	..032	..040	..050	..063
Clipfix-H0 clip	231.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances according to EN 60423.

FRÄNKISCHE halogen-free conduits have clear advantages over conventional electrical conduits:

Low smoke according to DIN EN 61034-2	▶ Better visibility – allows people in the buildings to find escape routes and the smoke does not hinder the work of any rescue personnel
Prevention of toxic gases, e.g. hydrochloric acid	▶ Protection of personnel, buildings, machinery, material assets and property
Fire retardant, i.e. self-extinguishing	▶ The conduits do not propagate the fire
Resistant to high temperatures	▶ High reliability guaranteed
High impact strength, even at extremely low temperatures	▶ High reliability guaranteed
Superior electrical insulating properties	▶ High reliability guaranteed
No environmental or disposal problems during production and use	▶ Environmentally friendly
Halogen-free according to DIN EN 50267-2-2	▶ Conforms to all relevant standards
Cables are easy to insert into conduits	▶ Application oriented

All dimensions without tolerances are for reference only.

Halogen-free, low smoke plastic conduit in straight lengths; classification: 3354

Application:

FPKu-EM-F-LS0H Low Smoke is suitable for surface installations in public buildings. FPKu-EM-F-LS0H Low Smoke is halogen-free and does not contribute to the formation of toxic and corrosive by-products during a fire. Because FPKu-EM-F-LS0H Low Smoke produces little smoke when burned, it will not hinder the escape of any persons in the building.

Physical properties:

Material: special plastic, medium compressive strength, medium impact strength, temperature resistance -45°C to +120°C, flame retardant, self-extinguishing, halogen-free, corrosion resistant, low smoke.



Fire test with FPKu-EM-F-LS0H



Fire test with a standard conduit. Smoke development 8 minutes after ignition of fire each.

THE COMPANY



A tradition of innovation



As a result of our many years of experience designing and manufacturing pipes and production lines, FRÄNKISCHE develops and manufactures technically superior corrugated pipes, pipe systems and production lines.

At our Königsberg headquarters and other branch office locations, subsidiaries, and affiliates in Europe, Asia and the U.S., almost 1,650 highly motivated employees work on solutions for drainage and electrical systems, building technology, industrial applications and mechanical engineering, and on developing and manufacturing production lines. The pipe

systems are for multiple applications. Some examples of our first-class system solutions include: highly complex drainage systems for use in civil engineering and road construction, a broad range of electric conduit systems for use in civil and mechanical engineering, heating and potable water pipes for use in building technology or cable protection systems and fluid lines for use in the automotive industry.

With more than 100 years of experience FRÄNKISCHE combines know-how and ambition for intelligent future innovations, which makes us the ideal partner for complex and technically challenging tasks.