

Main catalogue

Electrical Systems



March 2026



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General information

Did you know that? All our products are REACH-compliant!

REACH is a regulation of the European Union adopted to improve the protection of human health and the environment against the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.

Source: www.echa.europa.eu/de/regulations/reach/understanding-reach



Sustainability

Acting sustainably is essential to offer perspectives to future generations and leave them a sound environment. Our structures, processes & systems are thus continuously reviewed and improved within the framework of our certified energy & environmental management systems. In doing so, we reduce carbon emissions and the volume of waste we produce, cut our energy and water consumption, use natural resources sparingly, and develop pioneering products.



First ecobalanced electrical conduits

Being the first provider of ecobalanced electrical conduits, FRÄNKISCHE pledges itself to ecological sustainability in construction. FRÄNKISCHE provides certified environmental product declarations for selected plastic corrugated conduits with the co2ntrol name affix. These specify all ecologically relevant details of the conduits. By using regenerated materials, FRÄNKISCHE consumes up to 60 % fewer fossil resources and saves approx. 47 % of CO₂.



Lifestyle Innovation Award 21/22

Our co2ntrol products received a Lifestyle Innovation Award 21/22 in the categories Innovation, Design, Sustainability, and Material Quality. Our interior design co2ntrol products swept both consumers and the expert jury off their feet.





Living without plastics is no longer imaginable today

Plastic conduit systems are not disposable products, but high-quality industrial goods with low damage susceptibility. Conduits are a future-proof investment in any property and offer flexibility when you want to implement modern technologies – e.g., new mobility solutions or broadband expansion. The infrastructure for electrical and data installation usually exists for the entire life of a building. Cables and wires can be retrofitted and installed as required.

Plastic conduits guarantee high quality standards, are low-weight and can be easily installed. Plastic as a material also convinces with properties such as chemical resistance, corrosion resistance, specific insulation properties, pressure resistance and static loading capacity, thus guaranteeing compliance with applicable standards and provisions.



Fit for the energy transition thanks to ecobalanced conduits

In the course of the energy transition, buildings are evolving from mere consumers into generators of new energy, e.g., with photovoltaic power units. Those who attach particular importance to sustainability use ecobalanced construction products.

There are even corrugated plastic conduits for electrical installations available with type III eco-labels. By using regenerated materials and optimising the process chain as described above, co2ntrol products save up to 47 % CO₂ and up to 60 % of fossil resources in the production process and the entire supply chain.

Cost-efficient infrastructure for e-mobility

Electromobility is gaining ground: Therefore, the charging infrastructure has continuously been expanding. The EU Directive 2014/94/EU requires Member States to encourage the development of a consistent and sustainable infrastructure for alternative fuels, especially for electromobility.

Against this backdrop, the integration of a suitable electrical installation infrastructure in new buildings with parking spaces, such as multi-family homes and commercial properties, is becoming increasingly required or recommended in many countries. The installation of electrical conduits from the distribution board to the charging point can be implemented in new buildings in a cost-efficient and standard-compliant manner according to European standards, especially EN 61851.

Also for private construction, it is worth investing in the conduit infrastructure in order to be able to switch to electromobility at any time.



Ecobalanced electrical conduits

The CO₂-reduced products of the co2ntrol product line were subjected to a systematic analysis of all input and output flows across the entire product life cycle according to DIN EN ISO 14040 and DIN EN ISO 14044.

They all have environmental product declarations (EPDs) which were certified by an independent verification body according to DIN EN ISO 14025 and DIN EN 15804. By using regenerated materials, the products from this product line consume up to 60 % fewer fossil resources and save approx. 47 % of CO₂.

Go to video



Ecobalanced electrical conduits

FFKuS-EM-F-105 co2ntrol®

Classification code

33532

- Installation underground, in concrete or under screed
- Highspeed technology
- High temperature resistant
- Cold impact strength in extreme temperatures
- Certified by EPD Hub
- Material: PE/PP
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -45 °C to +105 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25612016	16	16.0	9.9	50	4.0	2000	70	magenta
25612020ⁱ	20	20.0	13.0	50	5.1	1400	90	
25612025ⁱ	25	25.0	17.4	50	7.3	1000	110	
25612032	32	32.0	22.9	25	5.1	700	130	
25612040	40	40.0	29.7	25	7.0	200	170	
25612050	50	50.0	38.4	25	8.5	150	220	
25612063	63	63.0	49.1	25	10.9	125	300	

Production-related dimensional tolerances for outside Ø according to EN 60423

i = with inner surface

FBY-EL-F co2ntrol®

Classification code

23322

- Concealed installation, installation in voids and under screed
- Highspeed technology
- Easy insertion of long cables possible
- Easy removal (types 16-50 with stretch film)
- Certified by EPD Hub
- Material: PE/PP
- Light compressive strength (320 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -15 °C to +90 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26212016	16	16.0	10.4	100	3.9	2800	60	black
26212020ⁱ	20	20.0	14.4	100	4.8	2000	80	
26212025ⁱ	25	25.0	18.7	50	3.4	1200	100	
26212032	32	32.0	24.9	50	4.8	800	130	
26212040	40	40.0	32.0	25	3.5	500	170	
26212050	50	50.0	41.0	25	4.4	400	220	
26212063	63	63.0	50.6	25	6.1	150	250	

Production-related dimensional tolerances for outside Ø according to EN 60423

i = with inner surface

Kabuflex R plus 450 co2ntrol®

 Classification code **N450**


- Underground cable protection
- Green inner surface for quicker cable insertion
- With feed cord and transparent coupling (sandtight)
- Material: PE
- Compressive stress type 450 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107, 116-117

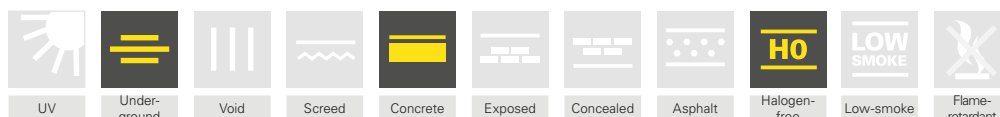

 EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19210040	40	40.0	31.0	50	7.3	350	black
19210050	50	50.0	40.0	50	9.6	350	
19210063	63	63.0	52.0	50	13.6	350	
19210075	75	75.0	62.0	50	16.6	350	
19210090	90	90.0	75.0	50	21.7	350	
19210110	110	110.0	93.0	50	27.2	500	
19210125	125	125.0	106.0	25	18.0	600	
19210160	160	160.0	137.0	25	28.9	750	
19210200	200	200.0	173.0	25	39.4	750	

Production-related dimensional tolerances for outside Ø acc. to NEN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C.

Kabuflex R plus 750 co2ntrol®

 Classification code **N750**


- Cable protection in concrete and underground
- For building lead-throughs according to VDE-AR-N 4100 (TAR low voltage)
- Green inner surface for quicker cable insertion
- With feed cord and transparent coupling (sandtight)
- Material: PE
- Compressive stress type 750 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107, 116-117

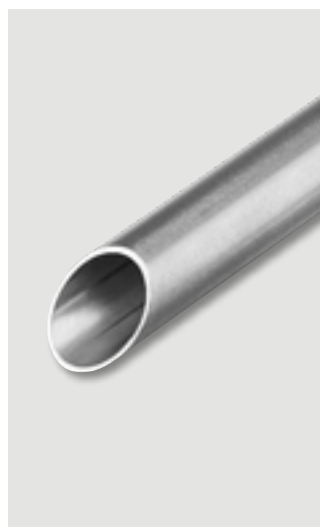

 EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19230075	75	75.0	62.0	50	26.5	350	grey
19230090	90	90.0	75.0	50	36.0	350	
19230110	110	110.0	93.0	50	47.5	500	
19230125	125	125.0	106.0	25	27.7	600	
19230160	160	160.0	136.0	25	41.2	750	

Production-related dimensional tolerances for outside Ø acc. to NEN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C.

V4 Steck-ES co2ntrol®

Classifica-
tion code**55571**

UV

Under-
ground

Void



Screed



Concrete



Exposed



Concealed



Asphalt

Halogen-
free

Low-smoke

Flame-
retardant

- Exposed installation, e.g., in swimming pools or food areas
- Surfaces: glossy, brushed
- Rigid stainless steel conduit, without coupling
- Very high corrosion resistance
- Material: rolled stainless steel W1.4571, AISI 316Ti
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 86-87



DIN EN IEC 61386-21

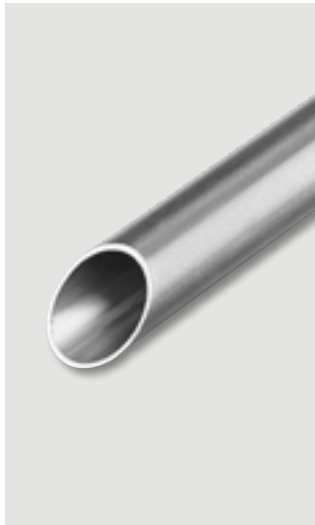
Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20814016	16	16.0	14.2	3	15	5.4	1800	metallic; brushed
20814020	20	20.0	18.2	3	15	6.6	1200	
20814025	25	25.0	22.8	3	15	10.2	990	
20814032	32	32.0	29.8	3	15	13.2	735	
20814040	40	40.0	37.8	3	9	9.9	594	
20814050	50	50.0	47.8	3	9	13.0	495	
20814063	63	63.0	60.0	3	9	20.7	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

*To be included in the co2ntrol family soon.

V2 Steck-ES co2ntrol®

Classification code

55571


UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Exposed installation, e.g., in the food industry
- Surfaces: glossy, brushed
- Rigid stainless steel conduit, without coupling
- High corrosion resistance
- Material: rolled stainless steel W1.4301, AISI 304
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 86-87

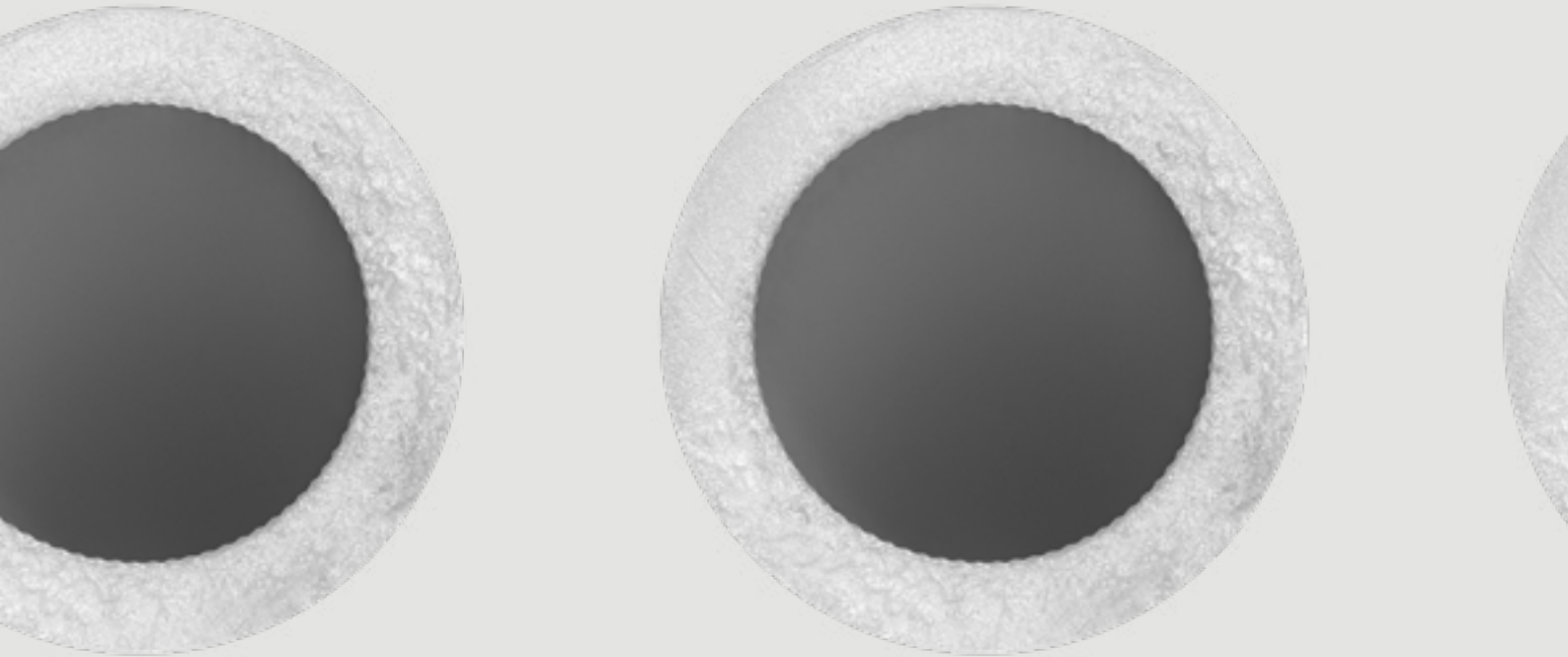


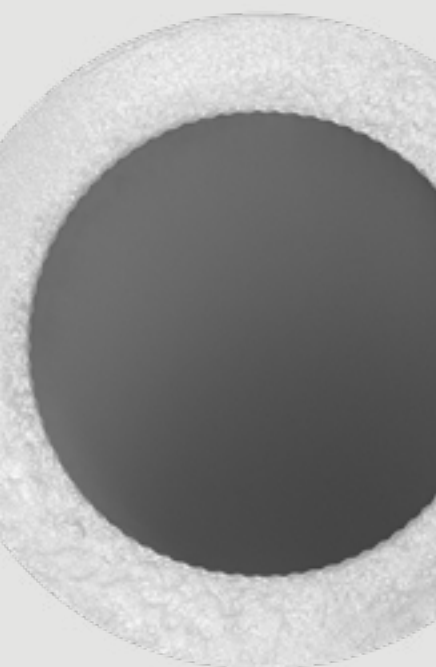
DIN EN IEC 61386-21

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20810016	16	16.0	14.2	3	15	5.4	1800	metallic; brushed
20810020	20	20.0	18.2	3	15	6.6	1200	
20810025	25	25.0	22.8	3	15	10.2	990	
20810032	32	32.0	29.8	3	15	13.2	735	
20810040	40	40.0	37.8	3	9	9.9	594	
20810050	50	50.0	47.8	3	9	13.0	495	
20810063	63	63.0	60.0	3	9	20.7	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

*To be included in the co2ntrol family soon.





Data installation

Directive 2014/61/EU of the European Parliament and of the Council requires a physical infrastructure for residential broadband. FRÄNKISCHE's FFKu-Fibre net micro conduit is an ideal product for network level 4 from the basement to the individual apartments to implement a future-proof conduit system for the use of glass fibre lines.

Once installed, the physical infrastructure thus enables internet connection using the latest fibre optic technology at any time – cost-effectively and independently of any provider.

Go to video



Data installation

FFKu®-Fibre net M

Classification code

33222

- Micro conduit for blowing-in glass fibre lines
- Superior blow-in performance thanks to inside grooving
- With metre marking
- Material: PE
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 21-22



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Reel content [m]	Reel weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Wall thickness [mm]	Recommended cable Ø [mm]	Colour
26520007	7 x 1.5	7	4	250	12.0	4500	70	1.5	2.3	white
26520507	7 x 1.5	7	4	500	21.0	3000	70	1.5	2.3	
26520707	7 x 1.5	7	4	1250	32.5	2500	70	1.5	2.3	
26520510	10 x 2.0	10	6	500	40.0	1000	100	2.0	4.0	
26520412	12 x 2.0	12	8	350	36.0	700	120	2.0	6.2	
26520014	14 x 2.0	14	10	250	32.0	500	140	2.0	8.0	

Fibre net installation set



- Broadband expansion fibre optic installation
- Fully comprehensive range of products: everything always at hand
- Compact, simple and easy transportation
- Accessories at hand and refillable
- Contents protected against loss and damage
- Suitable for network levels 4 and 5
- L-BOXX 102 transparent FRÄNKISCHE
- Compatible with Sortimo van rackings

Cat. no.*	Type	DSM coupling [pcs.]	ES end plug [pcs.]	KmR marking [pcs.]	IB bend [pcs.]	EZA-t sealing [pcs.]	FRS pipe cutter [pcs.]	Packing unit [pcs.]	Packing unit weight [kg]
26540007	7	5	10	10	20	5x 0.8 - 2.5 5x 2.0 - 4.0	—	1	3.5
26540010	10	5	20	20	—	5x 1.8 - 3.5 5x 3.0 - 5.0 5x 5.0 - 6.5	1	1	3.7

Data installation accessories

Fibre net DSM



- Coupling
- Halogen-free
- Gastight and watertight
- Material: PA
- To connect micro conduits
- For FFKu-Fibre net

Cat. no.	Type	Outside Ø* [mm]	Length [mm]	For conduits Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26550007	7	13	32	7	25	0.1	white
26550010	10	18	42	10	25	0.3	
26550012	12	22	46	12	25	0.5	
26550014	14	24	47	14	25	0.6	

Fibre net ES



- End plug
- Sealing of unused micro conduits
- Halogen-free
- Gastight and watertight
- Material: PA
- Protection against dirt
- For FFKu-Fibre net

Cat. no.	Type	Outside Ø* [mm]	Length [mm]	For conduits Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26570007	7	13	17	7	25	0.1	white
26570010	10	18	22	10	25	0.2	
26570012	12	21	25	12	25	0.3	
26570014	14	23	25	14	25	0.3	

Fibre net KmR



- Label with pipe plug
- Sealing of unused micro conduits
- Halogen-free
- Gastight and watertight
- Material: PA
- Labelling of micro conduit routes
- Large labelling space
- For FFKu-Fibre net

Cat. no.	Type	Outside Ø* [mm]	Length [mm]	For conduits Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26571007	7	20	122	7	25	0.5	white
26571010	10	20	122	10	25	0.5	
26571012	12	20	122	12	25	0.5	
26571014	14	23	122	14	25	0.5	

Fibre net IB



- Installation bend for micro conduits
- Installation aid for mounting in bends
- Ideal bend radius for blowing-in
- Halogen-free
- Material: PA
- For FFKu-Fibre net
- Prevents kinks and deformations
- Can be joined together

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	For conduits Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26560007	7	110	75	125	7	25	0.6	white

Fibre net EZA-t



- Two-piece single strand sealing
- Sealing of micro conduits in use
- Halogen-free
- Material: PA
- Matches the glass fibre line used
- For FFKu-Fibre net

Cat. no.	Type	Outside Ø* [mm]	Length [mm]	Cable sealing range [mm]	For conduits Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26572007	7	21	43	0.8-2.5	7	25	0.2	white
26572507	7	21	43	2.0-4.0	7	25	0.2	
26572410	10	27	43	1.8-3.5	10	25	0.4	
26572610	10	27	43	3.0-5.0	10	25	0.4	
26572710	10	27	43	5.0-6.5	10	25	0.4	
26572612	12	28	43	3.0-5.0	12	25	0.5	
26572712	12	28	43	5.0-6.5	12	25	0.5	
26572614	14	28	43	3.0-5.0	14	25	0.5	
26572714	14	28	43	5.0-6.5	14	25	0.5	
26572814	14	28	43	6.5-8.0	14	25	0.5	

Data installation

FFKu®-Smart net

Classification code

33522

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Installation in concrete, in voids, under screed or concealed

- Edgeless

- Ideal for all types of data cables

- Material: PE

- Medium compressive strength (750 N/5 cm)

- Medium impact strength (2.0 kg/100 mm)

- Temperature range from -45 °C to +90 °C

- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25230025	25	25.0	17.0	50	5.5	400	160	blue-purple

Production-related dimensional tolerances for outside Ø according to EN 60423





Light-duty corrugated plastic conduits

The plastic corrugated conduits with light compressive strength are non-flame propagating and pliable. Depending on the product line, they are equipped with a low-friction polyethylene inner surface.

These plastic corrugated conduits are used, among others, in concealed installations, in voids and under screed. The high-speed technology significantly facilitates and accelerates the insertion of wires and cables, saving you a lot of time. Even longer runs can be installed easily without interruptions.

The increased stiffness and the marginal reset behaviour as compared to similar products on the market provide additional advantages during installation. The conduit can be unwound up to the last metre by turning and pulling, leaving the packaging undamaged.

Light-duty corrugated plastic conduits

FBY-EL-F co2ntrol®

Classification code **23322**




UV


Under-ground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


Halogen-free


Low-smoke


Flame-retardant

- Concealed installation, installation in voids and under screed
- Highspeed technology
- Easy insertion of long cables possible
- Easy removal (types 16-50 with stretch film)
- Certified by EPD Hub
- Material: PE/PP
- Light compressive strength (320 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -15 °C to +90 °C
- For accessories, see pages 90-95

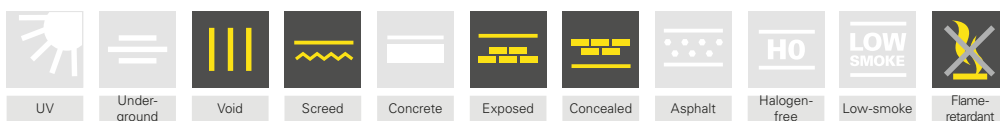
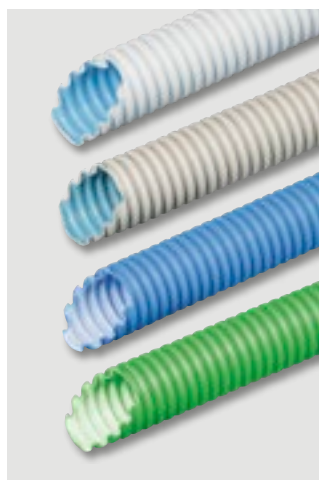


EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26212016	16	16.0	10.4	100	3.9	2800	60	black
26212020 ⁱ	20	20.0	14.4	100	4.8	2000	80	
26212025 ⁱ	25	25.0	18.7	50	3.4	1200	100	
26212032	32	32.0	24.9	50	4.8	800	130	
26212040	40	40.0	32.0	25	3.5	500	170	
26212050	50	50.0	41.0	25	4.4	400	220	
26212063	63	63.0	50.6	25	6.1	150	250	

Production-related dimensional tolerances for outside Ø according to EN 60423
i = with inner surface

FBY®-EL-F Highspeed

 Classification code **23322**


- Concealed installation, installation in voids and under screed
- Highspeed technology
- Easy insertion of long cables possible
- Easy removal (types 16-50 with stretch film)
- Material: PE
- Light compressive strength (320 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -15 °C to +90 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26220020ⁱ	20	20.0	14.9	100	5.1	2000	80	white
26220025ⁱ	25	25.0	19.3	50	3.6	1200	100	
26220032	32	32.0	24.9	50	5.2	800	130	
26230020ⁱ	20	20.0	14.9	100	5.1	2000	80	grey
26230025ⁱ	25	25.0	19.3	50	3.6	1200	100	
26230032	32	32.0	24.9	50	5.2	800	130	
26240020ⁱ	20	20.0	14.9	100	5.1	2000	80	blue
26240025ⁱ	25	25.0	19.3	50	3.6	1200	100	
26240032	32	32.0	24.9	50	5.2	800	130	
26250020ⁱ	20	20	14.9	100	5.1	2000	80	green
26250025ⁱ	25	25	19.3	50	3.6	1200	100	
26250032	32	32	24.9	50	5.2	800	130	

Production-related dimensional tolerances for outside Ø according to EN 60423

i = with inner surface

FFKu®-EL-F

Classifica-
tion code**22212**

■ Concealed installation

■ Material: PVC

■ Light compressive strength (320 N/5 cm)

■ Light impact strength (1.0 kg/100 mm)

■ Temperature range from -5 °C to +60 °C

■ For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25010016	16	16.0	11.0	100	3.2	2400	60	beige
25010020	20	20.0	14.5	100	4.2	2000	80	
25010025	25	25.0	18.8	50	2.6	1000	100	
25010032	32	32.0	24.5	50	4.3	800	130	
25010040	40	40.0	31.7	25	2.9	400	170	
25010050	50	50.0	40.3	25	4.1	400	220	
25010063	63	63.0	50.7	25	5.3	150	250	
25005016	16	16.0	11.0	50	1.6	2100	60	light grey
25005020	20	20.0	14.5	50	2.1	1500	80	
25005025	25	25.0	18.8	50	2.6	1200	100	
25005032	32	32.0	24.5	50	4.3	600	130	
25005040	40	40.0	31.7	25	2.9	400	170	
25005050	50	50.0	40.3	25	4.1	400	220	
25005063	63	63.0	50.7	25	5.3	150	250	

Production-related dimensional tolerances for outside Ø according to EN 60423





Medium-duty corrugated plastic conduits

Our pliable FFKuS-EM-F Highspeed corrugated conduit is a safe solution for electrical installations in concrete. Our high-quality plastic conduit convinces through a low-friction inner surface, a specially designed jacketing and time- and cost-saving installation characteristics.

FFKuS-EM-F Highspeed meets all requirements for safe concrete installation and is available in nominal widths 16 to 63. The non-flame propagating conduit is pliable and features medium compressive and impact strength. The operating temperature range is between -25 °C and +60 °C and thus covers the majority of applications.

Medium-duty corrugated plastic conduits

FFKu®-EM-F Highspeed

 Classification code **33412**


- Installation underground, in concrete or under screed
- Highspeed technology
- Cable insertion over long distances
- Material: PVC
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25205016	16	16.0	10.9	50	2.3	2100	70	grey
25205020	20	20.0	14.2	50	3.0	1500	90	
25205025	25	25.0	18.6	50	4.4	1200	110	
25205032	32	32.0	24.4	25	3.0	600	130	
25205040	40	40.0	31.4	25	4.2	400	170	
25205050	50	50.0	39.9	25	5.4	400	220	
25205063	63	63.0	49.9	25	7.7	150	300	

Production-related dimensional tolerances for outside Ø according to EN 60423

FFKuS-EM-F-105 co2ntrol®

 Classification code **33532**


- Installation underground, in concrete or under screed
- Highspeed technology
- High temperature resistant
- Cold impact strength in extreme temperatures
- Certified by EPD Hub
- Material: PE/PP
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -45 °C to +105 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25612016	16	16.0	9.9	50	4.0	2000	70	magenta
25612020 ⁱ	20	20.0	13.0	50	5.1	1400	90	
25612025 ⁱ	25	25.0	17.4	50	7.3	1000	110	
25612032	32	32.0	22.9	25	5.1	700	130	
25612040	40	40.0	29.7	25	7.0	200	170	
25612050	50	50.0	38.4	25	8.5	150	220	
25612063	63	63.0	49.1	25	10.9	125	300	

Production-related dimensional tolerances for outside Ø according to EN 60423

ⁱ = with inner surface

FFKuS®-EM-F Highspeed

Classifica-
tion code**33412**

- Installation underground, in concrete or under screed
- Highspeed technology
- Cable insertion over long distances
- Additional protection thanks to jacketing
- Material: PVC
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25310016	16	16.0	10.9	50	3.5	2000	70	light grey
25310020	20	20.0	14.2	50	5.0	1400	90	
25310025	25	25.0	18.6	50	6.8	1200	110	
25310032	32	32.0	24.3	25	4.7	700	130	
25310040	40	40.0	31.3	25	6.0	500	170	
25310050	50	50.0	40.0	25	7.6	400	220	
25310063	63	63.0	50.5	25	10.8	150	300	
25340020	20	20.0	14.2	50	5.0	1400	90	blue
25340025	25	25.0	18.6	50	6.8	1200	110	
25350020	20	20.0	14.2	50	5.0	1400	90	green
25350025	25	25.0	18.6	50	6.8	1200	110	

Production-related dimensional tolerances for outside Ø according to EN 60423



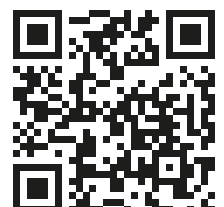


Corrugated plastic conduit with click-and-adhesion technology

Radon prevention with the ReMo click system

FRÄNKISCHE's ReMo click electrical installation system with low-friction inner surface can be processed without tools and thus prevents humidity and harmful radon from entering the building through the foundation slab. The reason for this: The electrical installation system is mounted onto weld lines by means of an adhesive rail without using any tools, which means that the sealing layer under the screed floor does not get damaged. This prevents humidity and radon from entering the building. In order to counter the invisible threat already during new construction or renovation, the ReMo click system by FRÄNKISCHE is a recommended solution for electrical installations on sealed foundation slabs, as well as for renovation, modernisation and remodelling for installations at the exterior façade under thermal insulation composite systems.

Go to video



Corrugated plastic conduit with click-and-adhesion technology

FFKu®-ReMo click

Classification code **23422**




UV


Under-ground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


H0
Halogen-free


LOW SMOKE
Low-smoke


Flame-retardant

- Installation on weld lines
- Installation using click-and-adhesion technology
- Highspeed technology
- Increased bearing capacity
- Material: PE
- Light compressive strength (increased: 500 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +90 °C
- For accessories, see pages 37, 90-95



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26610025	25	25.0	18.0	50	4.3	1200	110	Signal blue

Production-related dimensional tolerances for outside Ø according to EN 60423

Fastening



Stick the rail to the surface.

Installation



Easy installation thanks to patented clamp geometry.

Accessories



Airtight flush-mounted socket with rear insertion options.

Accessories for corrugated plastic conduits with click-and-adhesion technology

ReMo click rail



- For FFKu-ReMo click
- Installation using click-and-adhesion technology
- Rails can be joined
- Material: PVC
- Very high initial adhesion
- Adheres to dust-free surfaces

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26670001	–	60	22	7	50	0.3	black

ReMo flush-mounted socket



- Flush-mounted socket
- For FFKu-ReMo click
- With rear insertion
- Material: PS
- Airtight
- Halogen-free

Cat. no.	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
26680025	80	68	65	25	0.6	black

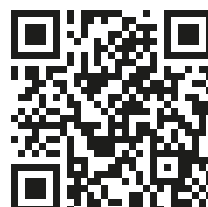


Multi-media conduit

The multi-media conduit is an oval polypropylene corrugated conduit.

This conduit allows TV cables and wires to be installed invisibly in the wall and be replaced easily. The plugs of the cables fit through the multi-media conduit. The installation depth is only approx. 6 cm.

Go to video



Multi-media conduit

Multi-media conduit set co2ntrol®*



- Large cross-section for feeding through all kinds of plugs
- Cables can be replaced
- Invisible cable routing behind screens
- 1.5 m set: 1.5 m oval conduit, 2 outlet sockets, 2 end caps; 2 x 1.5 m set: additionally with 1 coupling
- Retrofit outlet socket installation possible
- Material: PP
- Oval form: installation depth only approx. 6 cm
- Temperature range from -5 °C to +90 °C
- For accessories, see page 41

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	Packing unit [pcs.]	Box content [packing unit]	Packing unit weight [kg]	Colour
29410092	1.5	92 / 50	82 / 40	1 x 1.5	1	30	0.40	grey
29411092	2 x 1.5	92 / 50	82 / 40	2 x 1.5	1	15	0.80	

*To be included in the co2ntrol family soon.

Multi-media conduit co2ntrol®*



- Large cross-section for feeding through all kinds of plugs
- Cables can be replaced
- Can be expanded as required using MMR coupling
- Retrofit outlet socket installation possible
- Material: PP
- Oval form: installation depth only approx. 6 cm
- Temperature range from -5 °C to +90 °C
- For accessories, see page 41

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29412092	2 x 2	92 / 50	82/40	2 x 2	1	1.06	grey

*To be included in the co2ntrol family soon.

Multi-media conduit accessories

Multi-media conduit end cap



- End cap for multi-media conduits
- Material: PE
- Dust-proof sealing of the conduit ends

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29490292	MMR-E	31	99	55	1	0.02	black

Multi-media conduit coupling



- Coupling for multi-media conduits
- Material: PE
- To connect 90° multi-media conduit bends

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29451292	MMR-M	60	99	55	1	0.04	black

Multi-media-conduit 90° bend co2ntrol®*



- Easy installation in corners possible
- Material: PP
- 90° multi-media conduit bend

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29460292	MMR-B	190	92	190	1	0.08	grey

*To be included in the co2ntrol family soon.

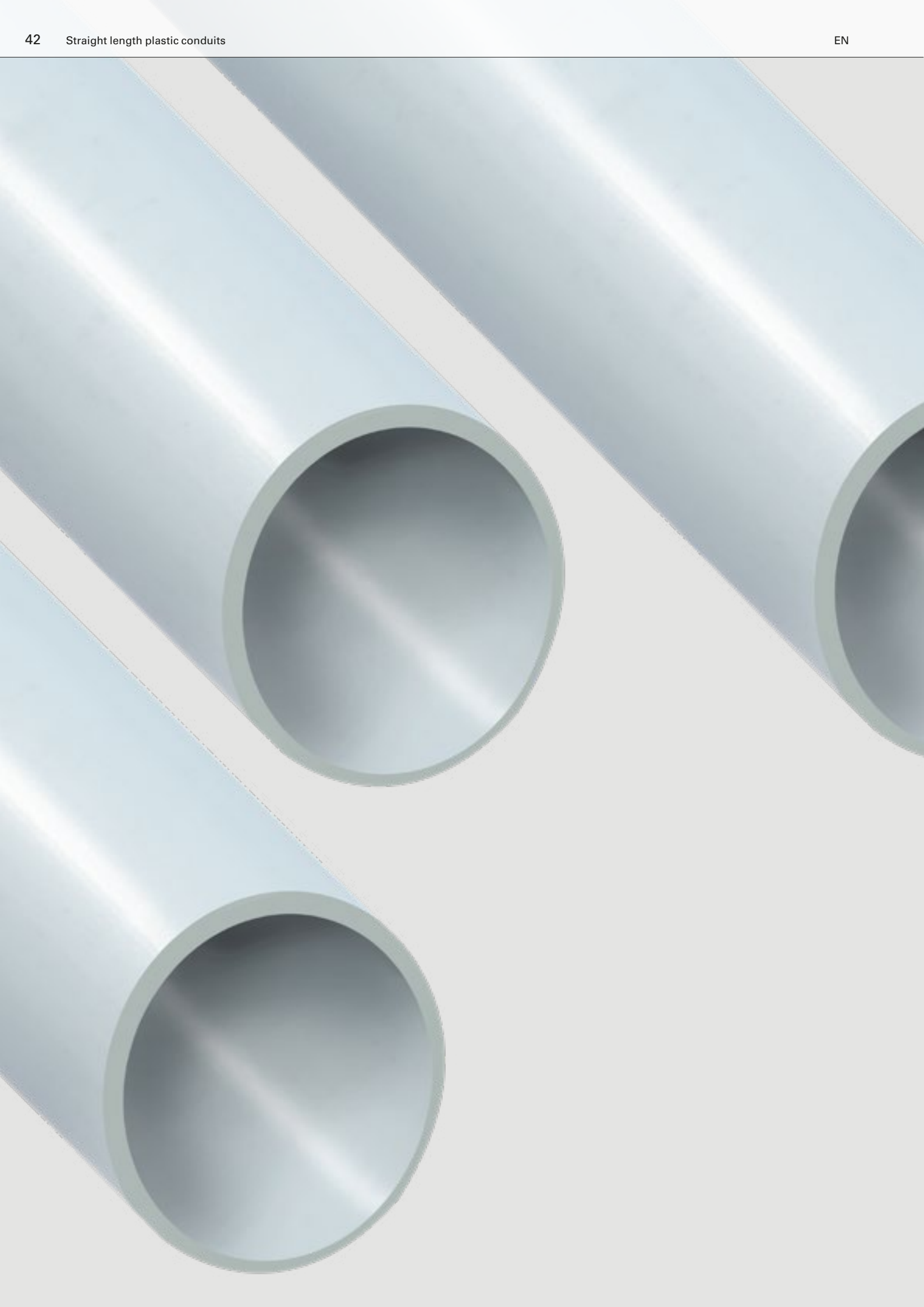
Multi-media conduit outlet socket



- Outlet socket for multi-media conduits
- Material: ABS
- Outlet for wires and cables
- Retrofit installation possible
- For installation in 60 mm bore holes

Cat. no.	Type	Outside Ø [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29495260	MMR-A	72	25	1	0.07	white

All accessories are non-flame propagating and have been flame propagation tested according to EN 61386-1 using the glow-wire test according to EN IEC 60695-2-11.





Straight length plastic conduits

In exposed installations, straight length conduits protect cables from damage. The clamps facilitate cable installation also in case of uneven walls. The pre-formed 90° bends ensure a visually high-quality installation.

The use of straight length conduits minimises installation times and thus costs. Cable laying can be carried out very easily directly or, thanks to the good accessibility, also subsequently or it can also be extended.

FRÄNKISCHE straight length plastic conduits are available in lengths of 2 m and 3 m with one pre-moulded coupling.

Straight length plastic conduits

isofix-EL-F

Classification code

22211

- Exposed installation
- With one pre-moulded coupling
- Material: PVC-U
- Light compressive strength (320 N/5 cm)
- Light impact strength (1.0 kg/100 mm)
- Temperature range from -5 °C to +60 °C
- For accessories, see pages 46-47, 90-95



EN IEC 61386-21

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
22110016	16	16.0	14.3	3	111	6.7	7992	light grey
22110020	20	20.0	18.3	3	111	9.5	4995	
22110025	25	25.0	22.6	3	57	6.9	3135	
22110032	32	32.0	29.4	3	57	9.0	2052	
22110040	40	40.0	37.2	3	21	4.7	1407	
22110050	50	50.0	46.9	3	21	6.4	798	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-EM-F

Classification code

33411

- Exposed installation
- With one pre-moulded coupling
- Material: PVC-U
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 46-47, 90-95



EN IEC 61386-21

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
22210016	16	16.0	13.4	3	111	9.1	7992	light grey
22210020	20	20.0	17.1	3	111	12.1	4995	
22210025	25	25.0	21.7	3	57	8.6	3135	
22210032	32	32.0	28.6	3	57	12.0	2052	
22210040	40	40.0	36.0	3	21	6.2	1407	
22210050	50	50.0	46.1	3	21	8.4	798	
22210063	63	63.0	58.8	3	21	12.3	504	

22220016	16	16.0	13.4	3	111	9.1	7992	light grey
22220020	20	20.0	17.1	2	74	8.1	3330	
22220025	25	25.0	21.7	2	74	11.2	2072	
22220032	32	32.0	28.6	2	38	8.0	1368	
22220040	40	40.0	36.0	3	21	6.2	1407	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-EM-F 2 m set

 Classification code **33411**


- Exposed installation
- Incl. 100 clipfix clamps
- With one pre-moulded coupling
- Material: PVC-U
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 46-47, 90-95



EN IEC 61386-21

Cat. no.	Type	clipfix [pcs.]	Length [m]	In bundles of [m]	Bundle weight [kg]	Colour
22221020	20	100	2	74	8.5	light grey
22221025	25	100	2	74	11.8	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-ES-F

 Classification code **43211**


- Exposed installation
- For high mechanical stress
- With reinforced walls
- With one pre-moulded coupling
- Material: PVC-U
- Heavy compressive strength (1250 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -5 °C to +60 °C
- For accessories, see pages 46-47, 90-95



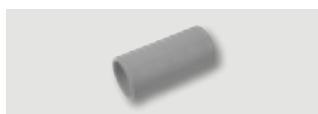
EN IEC 61386-21

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Colour
22310020	20	20.0	16.6	3	57	7.7	light grey
22310025	25	25.0	21.2	3	57	10.4	
22310032	32	32.0	27.9	3	21	5.5	
22310040	40	40.0	35.3	3	21	7.4	
22310050	50	50.0	45.4	3	21	10.2	

Production-related dimensional tolerances for outside Ø according to EN 60423

Straight length plastic conduit accessories

SMSKu-E



- Plastic push-fit coupling
- With internal limit stop
- Material: PVC-U
- For isofix-EL-F, FPKu-EM-F and FPKu-ES-F

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22250016	16	19.0	64	50	0.40	light grey
22250020	20	23.1	64	100	1.05	
22250025	25	28.3	64	100	1.38	
22250032	32	35.6	78	50	1.09	
22250040	40	43.8	82	25	0.78	
22250050	50	54.1	108	10	0.55	
22250063	63	67.0	128	5	0.44	

SBSKu-EM



- Plastic push-fit bend
- With one pre-moulded coupling
- Material: PVC-U
- For isofix-EL-F, FPKu-EM-F and FPKu-ES-F

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22260016	16	16.0	13.4	120	55	50	0.89	light grey
22260020	20	20.0	17.1	150	80	50	1.47	
22260025	25	25.0	21.8	200	120	50	2.66	
22260032	32	32.0	28.8	220	155	50	3.99	
22260040	40	40.0	36.0	300	185	25	3.81	
22260050	50	50.0	46.0	350	200	10	2.75	
22260063	63	63.0	59.0	400	220	5	2.08	

clipfix



- Plastic clamp
- Material: PP
- Types 40-63 incl. clipsib safety brackets
- For isofix-EL-F, FPKu-EM-F and FPKu-ES-F
- Can be joined together thanks to dovetail joint
- For all corrugated conduits
- Installation using C-rail possible

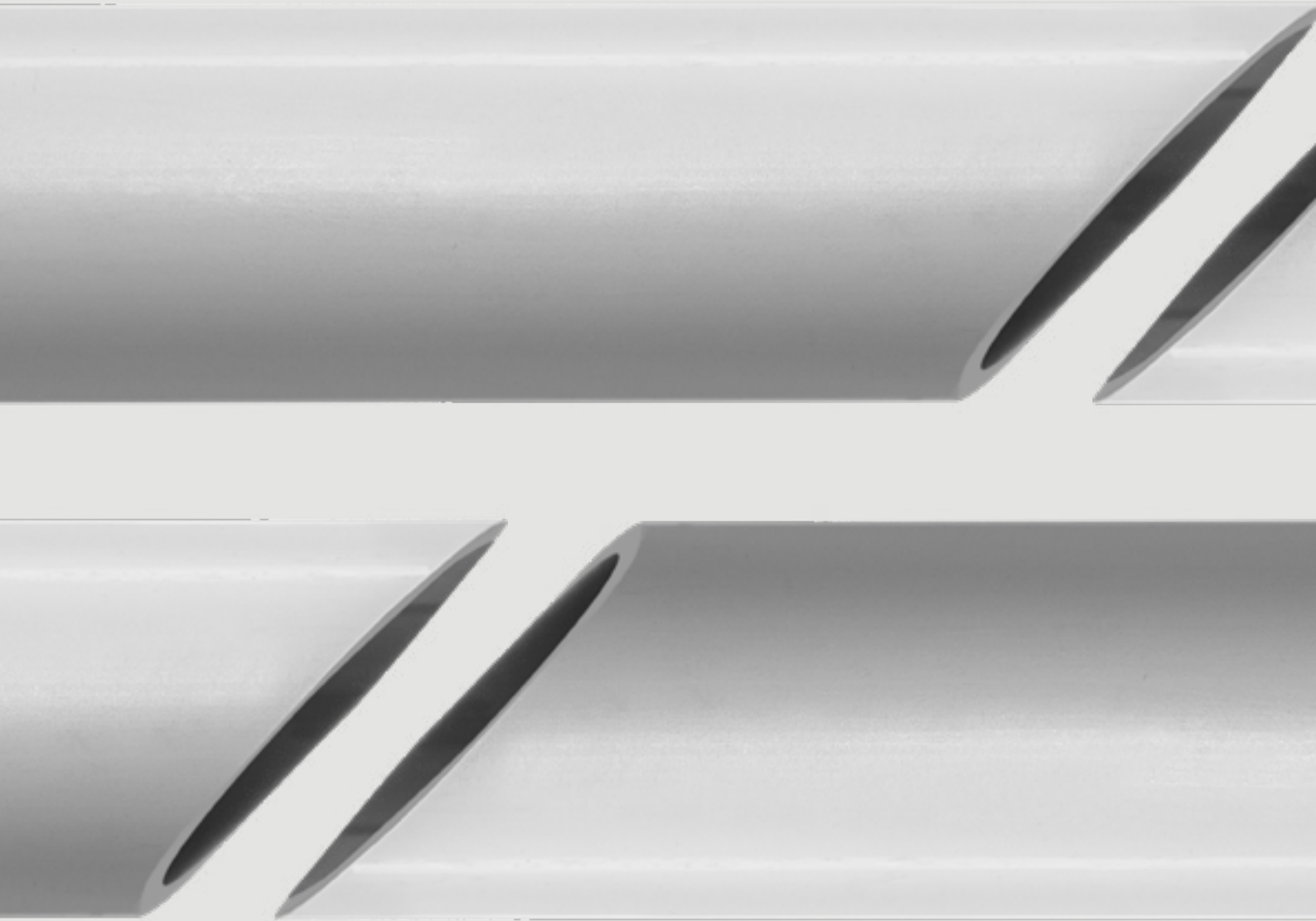
Cat. no.	Type	Width [mm]	Length [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22370016	16	26.4	16	25.4	5x7	100	0.37	light grey
22370020	20	30.2	16	28.8	5x8	100	0.40	
22370025	25	37.0	16	32.8	5x10	100	0.52	
22370032	32	43.6	16	40.8	5x10	100	0.80	
22370040	40	52.0	16	48.4	6x12	50	0.47	
22370050	50	61.5	16	55.8	6x12	25	0.32	
22370063	63	74.6	16	66.8	6x12	25	0.41	

Spacing

Spacing of clipfix clamps for rigid plastic conduits, spacing in cm.

Type	clipfix			clipfix-HO			clipfix-UV		
Temp. [°C]	+25	+40	+50	+25	+40	+50	+25	+40	+50
16	60	50	45	80	60	55	55	50	45
20	60	50	45	80	60	55	55	50	45
25	70	50	40	80	60	55	55	50	40
32	60	40	30	80	55	45	45	40	30
40*	90	80	60	90	80	60	60	80	60
50*	90	80	60	90	80	60	60	80	60
63*	90	80	60	90	80	60	60	80	60

* In connection with clipsib plastic safety bracket. The data provided is for information purposes only. Please reduce the clamp spacing by 10 cm for isofix-EL-F.





Halogen-free conduits – Low Smoke

FPKu-EM-F-LS0H is a halogen-free and low smoke straight length PPE conduit in grey colour.

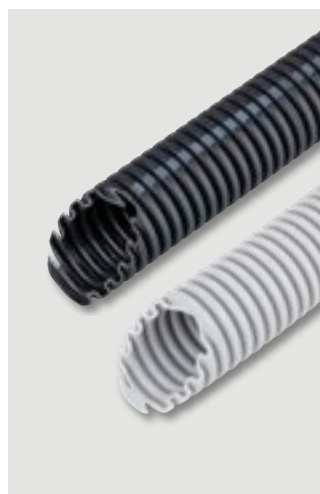
Since the conduit is halogen-free, this reduces the amount of corrosive and toxic gases to a minimum in the event of a fire. Consequential fire damage is thus reduced. Low Smoke, or LS0H, offers the additional advantage that the resulting smoke has a high translucency. 80 % of the original light will still be available.

Emergency and escape routes will remain visible for a longer period of time. This extends panic-free rescue times.

Halogen-free conduits – Low Smoke

FFKu®-EL-F-LS0H Low Smoke

Classification code

23232

- Concealed installation, installation in voids, under screed
- High temperature resistant
- Material: PP
- Light compressive strength (320 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -5 °C to +105 °C
- For accessories, see pages 54-55, 90-95



EN IEC 61386-22

Halogen-free according to DIN EN IEC 63355

Determination of the halogen acid gas content acc. to EN 60754-1

Determination of smoke gas density acc. to EN 61034-2

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
24110016	16	16.0	10.3	100	3.2	2800	60	black
24110020	20	20.0	14.2	100	5.0	2000	80	
24110025	25	25.0	18.1	50	3.3	1200	100	
24110032	32	32.0	24.1	50	4.5	800	130	
24110040	40	40.0	31.1	25	3.0	500	170	
24110050	50	50.0	39.2	25	3.8	400	200	
24110063	63	63.0	49.9	25	4.8	150	250	
24115016	16	16.0	10.3	100	3.2	2800	60	light grey
24115020	20	20.0	14.2	100	5.0	2000	80	
24115025	25	25.0	18.1	50	3.3	1200	100	
24115032	32	32.0	24.1	50	4.5	800	130	
24115040	40	40.0	31.1	25	3.0	500	170	
24115050^a	50	50.0	39.2	25	3.8	400	200	
24115063^a	63	63.0	49.9	25	4.8	150	250	

Production-related dimensional tolerances for outside Ø according to EN 60423

a = available on request

FFKu®-EM-F-LS0H Low Smoke

Classification code **33232**

- Installation in concrete
- High temperature resistant
- Material: PP
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -5 °C to +105 °C
- For accessories, see pages 54-55, 90-95



EN IEC 61386-22
 Halogen-free according to DIN EN IEC 63355
 Determination of the halogen acid gas content acc. to EN 60754-1
 Determination of smoke gas density acc. to EN 61034-2

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
24216016	16	16.0	10.1	50	2.8	2100	70	light grey
24216020	20	20.0	14.0	50	4.0	2000	90	
24216025	25	25.0	18.0	50	5.3	1200	110	
24216032	32	32.0	23.8	50	7.9	800	130	
24216040^a	40	40.0	30.6	25	5.3	500	170	
24216050^a	50	50.0	38.6	25	6.6	400	220	
24216063^a	63	63.0	49.6	25	7.9	150	300	

Production-related dimensional tolerances for outside Ø acc. to ÖVE/ÖNORM EN 60423

a = available on request

FFKuS®-EM-F-LS0H Low Smoke

Classifica-
tion code**33532**

- Installation in concrete
- Highspeed technology
- High temperature resistant
- Cold impact strength in extreme temperatures

- Material: PP
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -45 °C to +105 °C
- For accessories, see pages 54-55, 90-95



EN IEC 61386-22

Halogen-free according to DIN EN IEC 63355
Determination of the halogen acid gas content
acc. to EN 60754-1Determination of smoke gas density acc. to
EEN 61034-2

Corrosivity according to EN 60754-2

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25510016	16	16.0	10.2	50	3.3	2000	70	black
25510020ⁱ	20	20.0	13.5	50	4.2	1400	90	
25510025ⁱ	25	25.0	17.3	50	6.0	1200	110	
25510032	32	32.0	23.0	25	4.5	700	130	
25510040	40	40.0	29.7	25	6.1	200	170	
25510050	50	50.0	38.7	25	8.0	150	220	
25510063	63	63.0	48.3	25	10.6	125	300	

Production-related dimensional tolerances for outside Ø according to EN 60423

i = with inner surface

FPKu-EL-F-H0

Classifica-
tion code**22521**

- Exposed installation
- With one pre-moulded coupling
- Cold impact strength in extreme temperatures

- Material: PPE
- Light compressive strength (320 N/5 cm)
- Light impact strength (1.0 kg/100 mm)
- Temperature range from -45 °C to +90 °C
- For accessories, see pages 54-55, 90-95



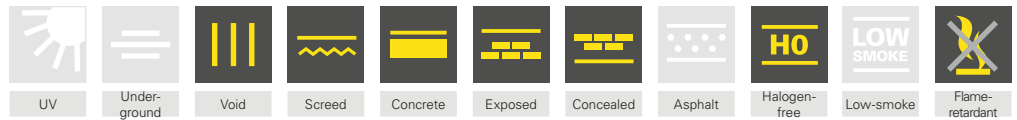
EN IEC 61386-21

Halogen-free according to DIN EN IEC 63355

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
23110016	16	16.0	13.5	3	111	6.4	7992	light grey
23110020	20	20.0	17.4	3	111	8.6	4995	
23110025	25	25.0	22.4	3	57	5.7	3135	
23110032	32	32.0	28.9	3	57	8.5	2052	
23110040	40	40.0	36.8	3	21	4.0	1407	
23110050	50	50.0	46.1	3	21	6.6	798	
23110063	63	63.0	58.8	3	21	8.0	504	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-EM-F-H0

Classification code **33521**

- Exposed installation
- With one pre-moulded coupling
- Cold impact strength in extreme temperatures
- Material: PPE
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -45 °C to +90 °C
- For accessories, see pages 54-55, 90-95



EN IEC 61386-21
Halogen-free according to DIN EN IEC 63355
Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
23210016	16	16.0	13.0	3	111	7.5	7992	light grey
23210020	20	20.0	16.8	3	111	10.7	4995	
23210025	25	25.0	21.5	3	57	7.4	3135	
23210032	32	32.0	28.0	3	57	10.3	2052	
23210040	40	40.0	35.5	3	21	5.2	1407	
23210050	50	50.0	45.2	3	21	7.6	798	
23210063	63	63.0	57.8	3	21	10.1	504	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu-EM-F-LS0H Low Smoke

Classification code **33541**

- Exposed installation
- With one pre-moulded coupling
- High temperature resistant
- Cold impact strength in extreme temperatures
- Material: PPE
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -45 °C to +120 °C
- For accessories, see pages 54-55, 90-95



EN IEC 61386-21
Halogen-free according to DIN EN IEC 63355
Determination of smoke gas density acc. to EN 61034-2
Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
23310016	16	16.0	13.0	3	111	7.4	7992	light grey
23310020	20	20.0	16.8	3	111	10.3	4995	
23310025	25	25.0	21.5	3	57	7.1	3135	
23310032	32	32.0	28.0	3	57	9.9	2052	
23310040	40	40.0	35.5	3	21	5.0	1407	
23310050	50	50.0	45.2	3	21	7.5	798	
23310063	63	63.0	57.8	3	21	10.1	504	

Production-related dimensional tolerances for outside Ø according to EN 60423

Halogen-free conduit accessories

SMSKu-ER



- Plastic claw coupling
- 4 stops per side
- Secure connection of corrugated conduits without sheathing
- Material: PA66
- For all corrugated conduits
- Halogen-free

Cat. no.	Type	Width [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25940020	20	23.0	42.0	50	0.23	black
25940025	25	28.0	56.0	50	0.39	

RMKu-E-H0



- Plastic push-fit coupling
- Halogen-free
- Material: PE
- For FFKu-EL-F-LS0H

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25910016	16	17.3	56	25	0.05	black
25910020	20	21.6	56	50	0.15	
25910025	25	26.7	74	50	0.27	
25910032	32	33.7	74	25	0.17	
25910040	40	41.8	102	25	0.32	
25910050	50	51.8	102	10	0.17	

SMSKu-E-H0



- Plastic push-fit coupling
- Halogen-free
- Material: PPE
- For all halogen-free corrugated and straight length conduits

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
23150016	16	19.0	64	25	0.16	light grey
23150020	20	23.1	64	50	0.50	
23150025	25	28.3	64	50	0.40	
23150032	32	35.6	78	25	0.53	
23150040	40	43.8	82	25	0.44	
23150050	50	54.1	108	10	0.61	
23150063	63	67.0	128	5	0.43	

SBSKu-EM-LS0H



- Plastic push-fit bend
- Halogen-free and low smoke
- With one pre-moulded coupling
- Material: PPE
- For FPKu-EM-F-LS0H

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
23360016	16	16.0	13.0	120	55	25	0.38	light grey
23360020	20	20.0	16.8	150	80	25	0.64	
23360025	25	25.0	21.5	200	120	25	1.21	
23360032	32	32.0	28.0	220	155	25	1.71	
23360040	40	40.0	35.5	300	185	25	2.63	
23360050	50	50.0	45.2	350	200	10	2.26	
23360063	63	63.0	57.8	400	220	5	0.17	

SBSKu-EM-H0



- Plastic push-fit bend
- Halogen-free
- With one pre-moulded coupling
- Material: PPE
- For FPKu-EM-F-H0 and FPKu-EL-F-H0

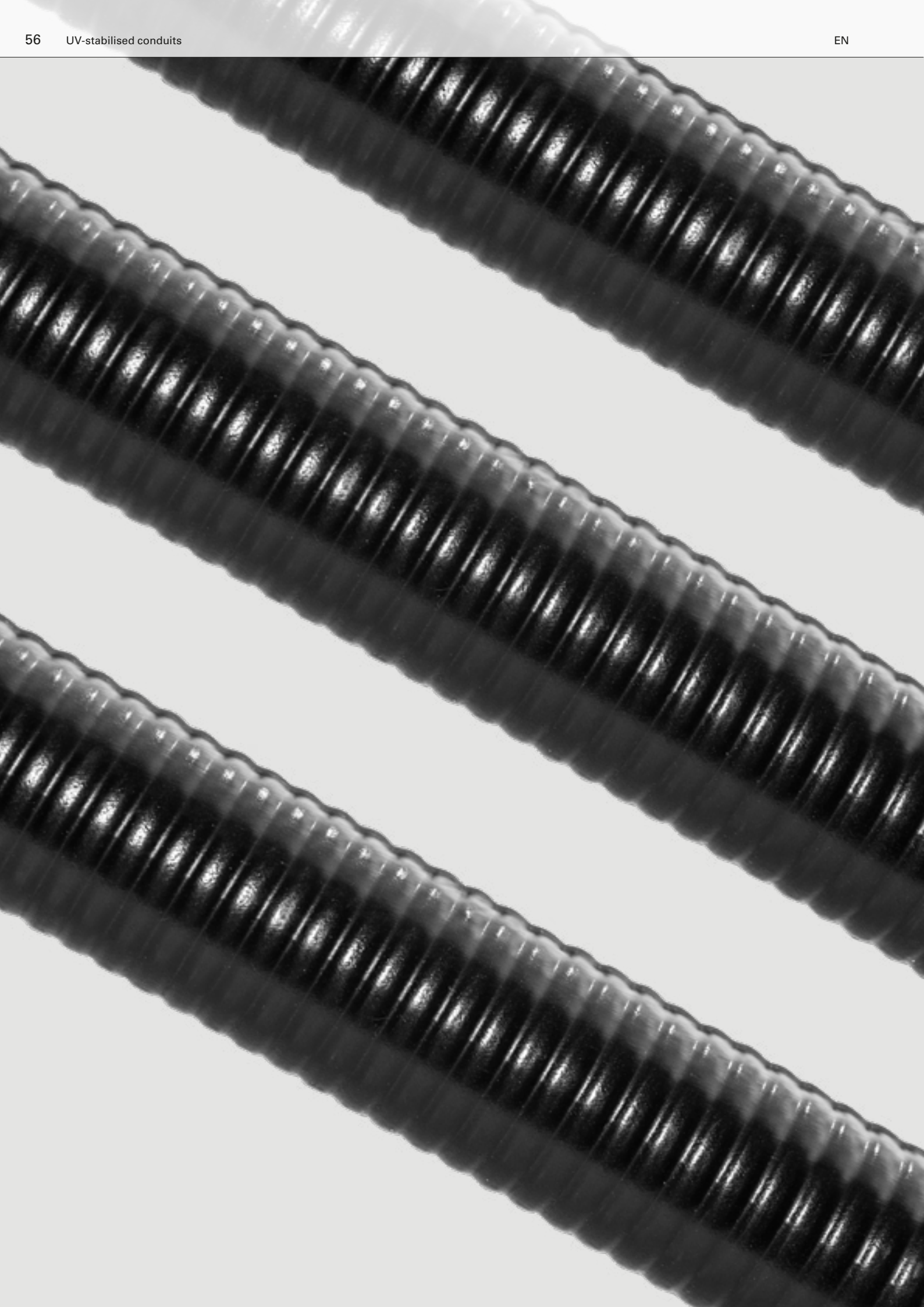
Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
23260016	16	16.0	13.0	120	55	25	0.39	light grey
23260020	20	20.0	16.8	150	80	25	0.66	
23260025	25	25.0	21.5	200	120	25	1.21	
23260032	32	32.0	28.0	220	155	25	1.71	
23260040	40	40.0	35.5	300	185	25	2.63	
23260050	50	50.0	45.2	350	200	10	2.26	
23260063	63	63.0	57.8	400	220	5	1.71	

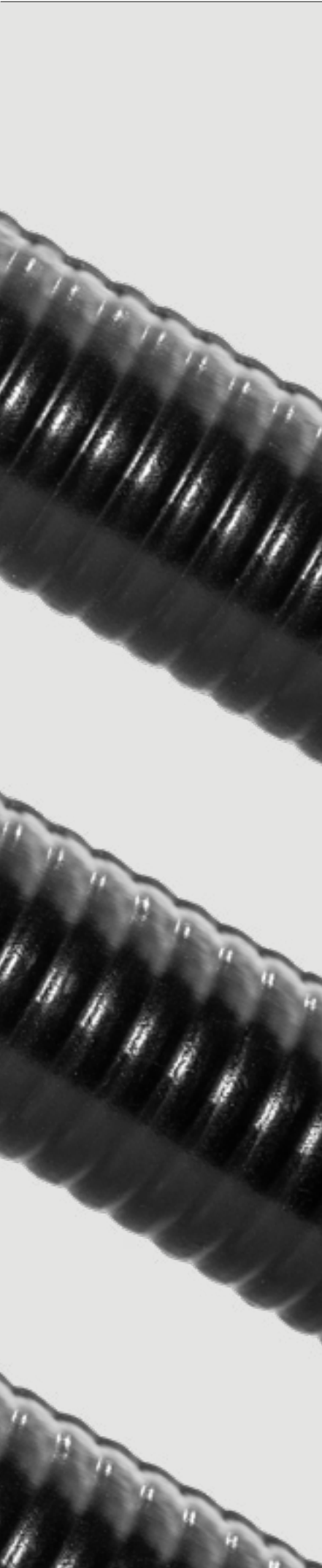
clipfix-H0



- Plastic clamp
- Halogen-free
- Types 40-63 incl. clipsib safety brackets
- Can be joined together thanks to dovetail joint
- Installation using C-rail possible
- Material: PPE
- For all halogen-free corrugated and straight length conduits

Cat. no.	Type	Width [mm]	Length [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
23170016	16	26.4	16	25.4	5x7	50	0.25	light grey
23170020	20	30.2	16	28.8	5x8	50	0.28	
23170025	25	37.0	16	32.8	5x10	50	0.36	
23170032	32	43.6	16	40.8	5x10	50	0.50	
23170040	40	52.0	16	48.4	6x12	25	0.36	
23170050	50	61.5	16	55.8	6x12	25	0.45	
23170063	63	74.6	16	66.8	6x12	10	0.24	





UV-stabilised conduits

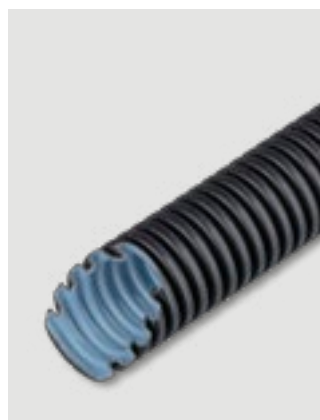
FFKuS-ES-F-UV Highspeed is a heavy-duty UV-resistant corrugated conduit made of modified PVC with highspeed technology in black.

Plastic conduits used outdoors are constantly exposed to wind, rain and sunlight. Over time, UV radiation usually makes conduits brittle, flawed and they change colour. In order to guarantee long durability, FRÄNKISCHE developed UV-stabilised plastic conduits featuring high ageing resistance and colourfastness. FRÄNKISCHE guarantees UV-stability for up to 10 years.

UV-stabilised conduits

FFKu®-EM-F-UV Highspeed

Classification code

33412

- Installation outdoors, in concrete and underground
- Highspeed technology
- UV-resistant for up to 10 years
- Material: mod. PVC
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 60-61, 90-95



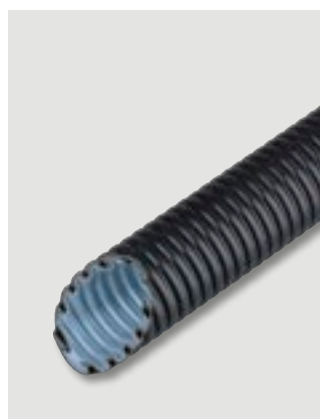
EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25430016	16	16.0	10.9	50	2.4	2100	70	black
25430020	20	20.0	14.2	50	3.3	1500	90	
25430025	25	25.0	18.6	50	4.8	1200	110	
25430032	32	32.0	24.3	25	3.1	600	130	
25430040	40	40.0	31.3	25	4.2	400	170	
25430050	50	50.0	40.0	25	5.5	400	220	
25430063	63	63.0	50.5	25	7.9	150	300	

Production-related dimensional tolerances for outside Ø according to EN 60423

FFKuS®-ES-F-UV Highspeed

Classification code

43412

- Installation outdoors, in concrete and underground
- Highspeed technology
- UV-resistant for up to 10 years
- Material: mod. PVC
- Heavy compressive strength (1250 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 60-61, 90-95

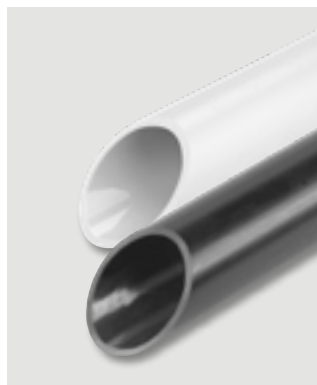


EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25410016	16	16.0	10.5	50	4.8	1600	110	black
25410020	20	20.0	13.7	50	7.2	450	140	
25410025	25	25.0	18.4	50	8.8	400	160	
25410032	32	32.0	24.1	25	6.3	225	180	
25410040	40	40.0	30.9	25	8.5	200	200	
25410050	50	50.0	39.5	25	11.0	150	300	
25410063	63	63.0	50.3	25	14.7	125	400	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-ES-F-UV

Classification code **43411**

- Exposed installation outdoors
- UV-resistant for up to 10 years
- With one pre-moulded coupling
- Material: mod. PVC
- Heavy compressive strength (1250 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 60-61, 90-95



EN IEC 61386-21

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Colour
22630020	20	20.0	16.6	3	57	7.8	light grey
22630025	25	25.0	21.2	3	57	10.4	
22630032	32	32.0	27.9	3	21	5.5	
22630040	40	40.0	35.3	3	21	7.4	
22630050	50	50.0	45.4	3	21	10.2	
22610020	20	20.0	16.6	3	57	7.8	black
22610025	25	25.0	21.2	3	57	10.4	
22610032	32	32.0	27.9	3	21	5.5	
22610040	40	40.0	35.3	3	21	7.4	
22610050	50	50.0	45.4	3	21	10.2	

Production-related dimensional tolerances for outside Ø according to EN 60423

FPKu®-EM-F-UV

Classification code **33411**

- Exposed installation outdoors
- UV-resistant for up to 10 years
- With one pre-moulded coupling
- Packed in resealable cardboard boxes
- Material: mod. PVC
- Medium compressive strength (750 N/5 cm)
- Medium impact strength (2.0 kg/100 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 60-61, 90-95



EN IEC 61386-21

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Colour
22520116	16	16.0	13.4	2	70	5.7	white
22520120	20	20.0	17.1	2	40	4.4	
22520125	25	25.0	21.7	2	30	4.5	
22520132	32	32.0	28.6	2	16	3.4	

Production-related dimensional tolerances for outside Ø according to EN 60423

UV-stabilised conduit accessories

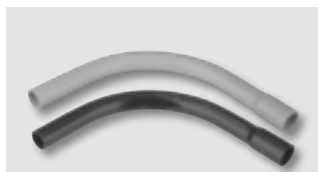
SMSKu-E-UV



- Plastic push-fit coupling
- UV-stabilised
- Material: mod. PVC
- For all UV-stabilised conduits

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22553020	20	23.1	64	25	0.25	light grey
22553025	25	28.3	64	25	0.34	
22553032	32	35.6	78	25	0.55	
22553040	40	43.8	82	25	0.77	
22553050	50	54.1	108	10	0.54	
22551016	16	19.0	64	25	0.18	black
22551020	20	23.1	64	25	0.25	
22551025	25	28.3	64	25	0.34	
22551032	32	35.6	78	25	0.55	
22551040	40	43.8	82	25	0.77	
22551050	50	54.1	108	10	0.54	
22551063	63	67.0	128	5	0.34	
22552016	16	19.0	64	25	0.20	white
22552020	20	23.1	64	25	0.26	
22552025	25	28.3	64	25	0.35	
22552032	32	35.6	78	25	0.54	

SBSKu-ES-UV



- Plastic push-fit bend
- UV-stabilised
- With one pre-moulded coupling
- Material: mod. PVC
- For FPKu-ES-F-UV

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22663020	20	20.0	16.6	150	80	25	0.92	light grey
22663025	25	25.0	21.2	200	120	25	1.61	
22663032	32	32.0	27.9	220	155	25	2.47	
22663040	40	40.0	35.3	300	185	25	4.58	
22663050	50	50.0	45.4	350	200	10	3.00	
22661020	20	20.0	16.6	150	80	25	0.92	black
22661025	25	25.0	21.2	200	120	25	1.61	
22661032	32	32.0	27.9	220	155	25	2.47	
22661040	40	40.0	35.3	300	185	25	4.58	
22661050	50	50.0	45.4	350	200	10	3.00	

SBSKu-EM-UV



- Plastic push-fit bend
- UV-stabilised
- With one pre-moulded coupling
- Material: mod. PVC
- For FPKu-EM-F-UV

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22562016	16	16.0	13.4	120	55	10	0.18	white
22562020	20	20.0	17.1	150	80	10	0.29	
22562025	25	25.0	21.8	200	120	10	0.53	
22562032	32	32.0	28.8	220	155	10	0.80	

clipfix-UV



- Plastic clamp
- UV-stabilised
- Types 40-50 incl. clipsib safety brackets
- Can be joined together thanks to dovetail joint
- Installation using C-rail possible
- Material: mod. PP
- For all UV-stabilised conduits

Cat. no.	Type	Width [mm]	Length [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
22573020	20	30.2	16	28.8	5x8	50	0.22	light grey
22573025	25	37.0	16	32.8	5x10	50	0.26	
22573032	32	43.6	16	40.8	5x10	50	0.40	
22573040	40	52.0	16	48.4	6x12	25	0.23	
22573050	50	61.5	16	55.8	6x12	25	0.28	
22571016	16	26.4	16	25.4	5x7	50	0.19	black
22571020	20	30.2	16	28.8	5x8	50	0.22	
22571025	25	37.0	16	32.8	5x10	50	0.26	
22571032	32	43.6	16	40.8	5x10	50	0.40	
22571040	40	52.0	16	48.4	6x12	25	0.23	
22571050	50	61.5	16	55.8	6x12	25	0.28	
22572016	16	26.4	16	25.4	5x7	50	0.19	white
22572020	20	30.2	16	28.8	5x8	50	0.22	
22572025	25	37.0	16	32.8	5x10	50	0.26	
22572032	32	43.6	16	40.8	5x10	50	0.40	





Metal conduits

Staro Gewinde-ES-V is a very heavy-duty galvanised conduit made of rolled mild steel according to EN ISO 1461, in straight lengths of 3 m, with threads on both sides, one screwed-on coupling (SM-E-V).

This steel conduit is used in environments requiring extreme mechanical strength and tight connections, and for outdoor installations. Advantages are its very heavy compressive strength, temperature resistance and high corrosion resistance.

The zinc-nickel coating of the accessories offers the same high degree of protection against corrosion as the hot-galvanised conduits. A high degree of protection against corrosion and UV-radiation outdoors for up to 30 years has been confirmed.

Varnished steel conduits

Staro Steck-ES

Classification code

44561

- Indoor exposed installation
- Surface: baked finish
- Rigid metal conduit, without coupling
- Medium corrosion protection
- Material: mild steel, rolled
- Heavy compressive strength (1250 N/5 cm)
- Heavy impact strength (2.0 kg/300 mm)
- Temperature range from -45 °C to +250 °C
- For accessories, see pages 65-67, 71-72, 90-95



EN IEC 61386-21

Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20310016	16	16.0	13.7	3	30	11.0	1800	black; varnished
20310020	20	20.0	17.7	3	30	14.1	1200	
20310025	25	25.0	22.5	3	30	21.9	990	
20310032	32	32.0	29.4	3	21	17.8	735	
20310040	40	40.0	37.4	3	15	16.5	600	
20310050	50	50.0	47.4	3	15	22.0	495	
20310063	63	63.0	60.3	3	15	25.9	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

Staro Gewinde-ES

Classification code

55561

- Indoor exposed installation
- Surface: baked finish
- Rigid metal conduit, one threaded coupling
- Medium corrosion protection
- Material: mild steel, rolled
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +250 °C
- For accessories, see pages 65-67, 71-72, 90-95



EN IEC 61386-21

Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20210016	16	M16x1.5	13.1	3	30	14.1	1800	black; varnished
20210020	20	M20x1.5	16.9	3	30	20.7	1200	
20210025	25	M25x1.5	21.9	3	30	27.5	990	
20210032	32	M32x1.5	28.8	3	21	24.6	735	
20210040	40	M40x1.5	36.6	3	15	22.5	600	
20210050	50	M50x1.5	46.6	3	15	28.2	495	
20210063	63	M63x1.5	59.3	3	15	40.2	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

Varnished steel conduit accessories

SMS-E



- Steel push-fit coupling
- Circuit integrity E30/E60/E90, see page xx
- Material: mild steel, rolled
- Quick connections of Staro Steck-ES
- For Staro Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20350016	16	18.6	16.1	55	25	0.70	black; burnished
20350020	20	22.5	20.1	55	50	1.70	
20350025	25	28.2	25.1	60	50	3.00	
20350032	32	35.2	32.1	70	50	4.45	
20350040	40	43.2	40.1	80	25	3.15	
20350050	50	53.2	50.1	95	10	1.79	
20350063	63	66.2	63.1	110	5	1.10	

SBS-E



- 90° steel push-fit bend, without coupling
- For closed installation
- Material: mild steel, rolled
- For Staro Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20360016	16	16.0	13.1	124	55	15	1.41	black; varnished
20360020	20	20.0	16.9	152	80	25	4.30	
20360025	25	25.0	21.9	185	110	25	6.45	
20360032	32	32.0	28.8	221	140	20	7.92	
20360040	40	32.0	36.6	286	170	15	9.80	
20360050	50	50.0	46.6	343	190	5	4.90	
20360063	63	63.0	59.3	403	220	3	5.15	

SES-E



- Steel push-fit end sleeve
- Material: mild steel, rolled
- Circuit integrity E30/E60/E90, see page 142
- Edge protection for Staro Steck-ES and Staro Gewinde-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20390016	16	23.3	16.1	53	25	0.70	black; burnished
20390020	20	28.2	20.1	53	50	1.70	
20390025	25	35.3	25.1	58	50	3.05	
20390032	32	44.0	32.1	68	50	4.50	
20390040	40	54.0	40.1	78	25	3.18	
20390050	50	66.5	50.1	93	10	1.62	
20390063	63	82.8	63.1	108	5	1.40	

SM-E



- Threaded steel coupling
- Material: mild steel, rolled
- Circuit integrity E30/E60/E90, see page 142
- High tensile strength connection of Staro Gewinde-ES

Cat. no.	Type	Outside Ø* [mm]	Female thread [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20250016	16	18.5	M16x1.5	30	25	0.53	black; burnished
20250020	20	22.5	M20x1.5	30	50	1.35	
20250025	25	28.1	M25x1.5	36	50	2.25	
20250032	32	35.0	M32x1.5	44	50	3.80	
20250040	40	43.5	M40x1.5	50	25	2.70	
20250050	50	55.0	M50x1.5	55	10	1.92	
20250063	63	68.3	M63x1.5	60	5	1.11	

SB-E



■ 90° threaded steel bend, one coupling

■ Material: mild steel, rolled

■ For closed installation

■ For Staro Gewinde-ES

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20260016	16	M16x1.5	13.1	124	55	15	1.68	black; varnished
20260020	20	M20x1.5	16.9	152	80	25	4.88	
20260025	25	M25x1.5	21.9	185	110	25	7.53	
20260032	32	M32x1.5	28.8	221	140	20	9.24	
20260040	40	M40x1.5	36.6	286	170	15	11.12	
20260050	50	M50x1.5	46.6	343	190	5	5.70	
20260063	63	M63x1.5	59.3	403	220	3	5.84	

Galvanised steel conduits

Staro Steck-ES-V

Classification code

44571

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Outdoor exposed installation
- Surfaces: hot-galvanised acc. to EN ISO 1461
- Rigid metal conduit, without coupling
- High corrosion resistance
- Material: mild steel, rolled
- Heavy compressive strength (1250 N/5 cm)
- Heavy impact strength (2.0 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 69-73, 90-95



EN IEC 61386-21

Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20510016	16	16.0	13.7	3	30	12.2	1800	silvery, hot-galvanised
20510020	20	20.0	17.7	3	30	15.9	1200	
20510025	25	25.0	22.5	3	30	24.3	990	
20510032	32	32.0	29.4	3	21	19.6	735	
20510040	40	40.0	37.4	3	15	18.3	600	
20510050	50	50.0	47.4	3	15	23.6	495	
20510063	63	63.0	60.3	3	15	28.5	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

Staro Gewinde-ES-V

Classification code

55571

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Outdoor exposed installation
- Surfaces: hot-galvanised acc. to EN ISO 1461
- Rigid metal conduit, one screwed-on threaded coupling
- High corrosion resistance
- Material: mild steel, rolled
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 69-73, 90-95



EN IEC 61386-21

Circuit integrity in the system E30/E60/E90, see page 142

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20410016	16	M16x1.5	13.1	3	30	15.3	1800	silvery, hot-galvanised
20410020	20	M20x1.5	16.9	3	30	22.5	1200	
20410025	25	M25x1.5	21.9	3	30	30.0	990	
20410032	32	M32x1.5	28.8	3	21	26.6	735	
20410040	40	M40x1.5	36.6	3	15	24.7	600	
20410050	50	M50x1.5	46.6	3	15	30.2	495	
20410063	63	M63x1.5	59.3	3	15	42.4	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

Galvanised steel conduit accessories

SMS-E-V



- Steel push-fit coupling
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- Quick connection of Staro Steck-ES-V, FFS-ES and FFSK-ES-UV
- For Staro Steck-ES-V, FFS-ES and FFSK-ES-UV

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20550016	16	18.6	16.1	55	25	0.73	grey; zinc-nickel
20550020	20	22.5	20.1	55	50	1.70	
20550025	25	28.2	25.1	60	50	3.10	
20550032	32	35.2	32.1	70	50	4.50	
20550040	40	43.2	40.1	80	25	3.20	
20550050	50	53.2	50.1	95	10	1.87	
20550063	63	66.2	63.1	110	5	1.37	

SBS-E-V



- 90° steel push-fit bend, without coupling
- For closed installation
- Material: mild steel, rolled
- For Staro Steck-ES-V

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20560016	16	16.0	13.1	124	55	15	1.50	silvery, hot-galvanised
20560020	20	20.0	16.9	152	80	25	3.85	
20560025	25	25.0	21.9	185	110	25	6.78	
20560032	32	32.0	28.8	221	140	20	8.18	
20560040	40	32.0	36.6	286	170	15	10.37	
20560050	50	50.0	46.6	343	190	5	5.20	
20560063	63	63.0	59.3	403	220	3	5.54	

SES-E-V



- Steel push-fit end sleeve
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- Edge protection for Staro Steck-ES-V

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20590016	16	23.3	16.1	53	25	0.75	grey; zinc-nickel
20590020	20	28.2	20.1	53	50	1.75	
20590025	25	35.3	25.1	58	50	3.10	
20590032	32	44.0	32.1	68	50	4.70	
20590040	40	54.0	40.1	78	25	3.30	
20590050	50	66.5	50.1	93	10	1.94	
20590063	63	82.8	63.1	108	5	1.40	

SM-E-V



- Threaded steel coupling
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- High tensile strength connection of Staro Gewinde-ES-V

Cat. no.	Type	Outside Ø* [mm]	Female thread [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20450016	16	18.5	M16x1.5	30	25	0.53	grey; zinc-nickel
20450020	20	22.5	M20x1.5	30	50	1.25	
20450025	25	28.1	M25x1.5	36	50	2.25	
20450032	32	35.0	M32x1.5	44	50	3.85	
20450040	40	43.5	M40x1.5	50	25	2.75	
20450050	50	55.0	M50x1.5	55	10	1.58	
20450063	63	68.3	M63x1.5	60	5	1.16	

SB-E-V



- 90° threaded steel bend, one coupling
- For closed installation
- Material: mild steel, rolled
- For Staro Gewinde-ES-V

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20460016	16	M16x1.5	13.1	124	55	15	1.79	silvery, hot-galvanised
20460020	20	M20x1.5	16.9	152	80	25	4.43	
20460025	25	M25x1.5	21.9	185	110	25	7.88	
20460032	32	M32x1.5	28.8	221	140	20	9.62	
20460040	40	M40x1.5	36.6	286	170	15	11.87	
20460050	50	M50x1.5	46.6	343	190	5	5.38	
20460063	63	M63x1.5	59.3	403	220	3	6.60	

SE-E-V



- Threaded steel end sleeve
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- High tensile edge protection for Gewinde-ES-V

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Male thread [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20490016	16	19.6	16.1	28	M16x1.5	25	0.30	grey; zinc-nickel
20490020	20	24.6	20.1	28	M20x1.5	50	0.80	
20490025	25	30.8	25.1	34	M25x1.5	50	1.30	
20490032	32	39.5	32.1	42	M32x1.5	50	2.15	
20490040	40	49.5	40.1	48	M40x1.5	25	1.55	
20490050	50	62.0	50.1	53	M50x1.5	10	0.94	
20490063	63	78.2	63.1	58	M63x1.5	5	0.80	

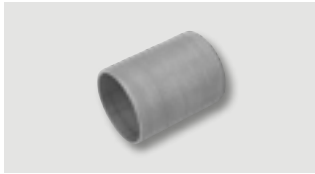
SSG-E-V



- Steel spacing bracket
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- Installation of varnished and hot-galvanised steel conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20570016	16	47	16	24.5	6.2x10	50	1.45	grey; zinc-nickel
20570020	20	51	16	28.5	6.2x10	50	1.55	
20570025	25	56	16	33.5	6.2x10	50	1.70	
20570032	32	63	16	40.5	6.2x10	25	0.95	
20570040	40	71	16	48.5	6.2x14	25	1.08	
20570050	50	81	16	58.5	6.2x14	25	1.25	
20570063	63	94	16	71.5	6.2x14	20	1.10	

SN-E-V



- Threaded steel nipple
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- High tensile strength connector for Staro Gewinde-ES-V and Staro Gewinde-ES

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20470016	16	M16x1.5	13.1	30	25	0.23	grey; zinc-nickel
20470020	20	M20x1.5	16.9	30	50	0.65	
20470025	25	M25x1.5	21.9	36	50	1.05	
20470032	32	M32x1.5	28.8	44	50	1.70	
20470040	40	M40x1.5	36.6	50	25	1.28	
20470050	50	M50x1.5	46.6	55	10	0.75	
20470063	63	M63x1.5	59.3	60	5	0.70	

SGR-E-V



- Threaded steel ring
- Circuit integrity E30/E60/E90, see page 142
- High corrosion resistance thanks to zinc-nickel coating
- Material: mild steel, rolled
- High tensile strength connector for Gewinde-ES-V and Staro Gewinde-ES

Cat. no.	Type	Male thread [mm]	Female thread [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20480016	16	18.5	M16x1.5	10	25	0.17	grey; zinc-nickel
20480020	20	22.5	M20x1.5	10	50	0.42	
20480025	25	28.1	M25x1.5	12	50	0.78	
20480032	32	35.0	M32x1.5	14.5	50	1.37	
20480040	40	43.5	M40x1.5	16.5	25	1.08	
20480050	50	55.0	M50x1.5	18.5	10	0.65	
20480063	63	68.3	M63x1.5	20	5	0.45	

Metal conduit accessories

SMK-E



- Quick-connect coupling
- Protection class IP67
- Material: brass
- High tensile strength connection of steel and aluminium conduits
- And FFS-ES and FFSK-ES-UV

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20555016	16	23.0	16.1	58	5	0.39	silvery; nickel-plated
20555020	20	27.0	20.1	58	5	0.45	
20555025	25	32.0	25.1	58	5	0.53	

SMG-E



- Threaded quick-connect coupling
- Protection class IP67
- Material: brass
- High tensile strength connector of steel and aluminium conduits
- And FFS-ES and FFSK-ES-UV

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Male thread [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20575016	16	26.0	13.2	41	M16x1.5	5	0.23	silvery; nickel-plated
20575020	20	27.0	17.0	41	M20x1.5	5	0.28	
20575025	25	32.0	22.0	41	M25x1.5	5	0.33	

Pliable steel conduits

FFSK-ES-UV

Classification code **44412**




UV


Under-ground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


H0


Halogen-free


Low-smoke


Flame-retardant

- Outdoor installation
- Surfaces: glossy black
- Pliable steel conduit, one threaded coupling
- Cable and wire shielding
- Material: galvanised steel strip and mod. PVC sheathing
- Heavy compressive strength (1250 N/5 cm)
- Heavy impact strength (2.0 kg/300 mm)
- Temperature range from -25 °C to +60 °C
- For accessories, see pages 65-67, 73





EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ≥ [mm]	Pallet content [m]	Colour
20120020	20	20.0	14.1	25	7.9	140	500	black
20120025	25	25.0	18.3	25	10.3	160	350	
20120032	32	32.0	24.3	25	13.3	200	250	
20120040	40	40.0	31.2	25	17.4	300	200	
20120050	50	50.0	39.6	25	21.0	400	150	

Production-related dimensional tolerances for outside Ø according to EN 60423

FFS-ES

Classification code

44562



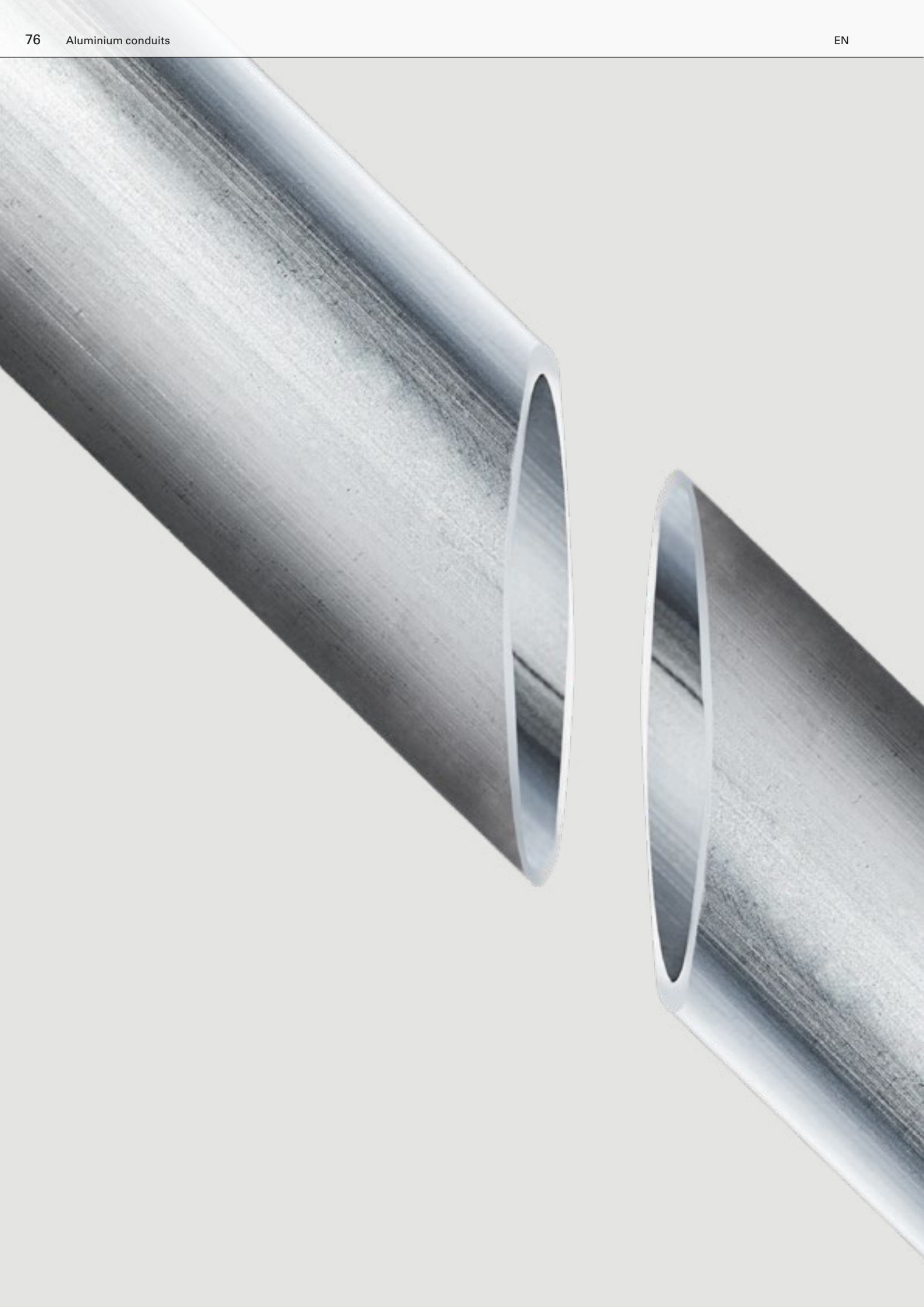
- Installation in hot asphalt
- Surfaces: galvanised, corrosion-protected
- Pliable steel conduit, one threaded coupling
- Only flexible conduit for hot asphalt
- Material: galvanised steel strip
- Heavy compressive strength (1250 N/5 cm)
- Heavy impact strength (2.0 kg/300 mm)
- Temperature range from -45 °C to +250 °C
- Circuit integrity similar to steel conduits
- For accessories, see pages 65-67, 73



EN IEC 61386-22

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ≥ [mm]	Pallet content [m]	Colour
20110016	16	16.0	10.7	25	4.9	140	1200	silvery
20110020	20	20.0	14.1	25	6.1	140	1000	
20110025	25	25.0	18.3	25	7.7	160	800	
20110032	32	32.0	24.3	25	9.7	200	600	
20110040	40	40.0	31.2	25	12.2	300	250	
20110050	50	50.0	39.6	25	15.3	400	250	

Production-related dimensional tolerances for outside Ø according to EN 60423



Aluminium conduits

Alu Steck-ES is a heavy-duty push-fit conduit made of extruded aluminium, in 3 m lengths.

This aluminium conduit is used in environments requiring increased mechanical strength, and for outdoor installations. Advantages are its high compressive strength and its low weight.

Aluminium conduits

Alu Steck-ES

Classification code

44561

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Outdoor exposed installation
- Surfaces: matt-finished, extruded
- Rigid aluminium conduit, without coupling
- High corrosion resistance
- Material: aluminium W3.3206
- Heavy compressive strength (1250 N/5 cm)
- Heavy impact strength (2.0 kg/300 mm)
- Temperature range from -45 °C to +250 °C
- Circuit integrity similar to steel conduits
- For accessories, see pages 73, 79-81, 90-95



EN IEC 61386-21

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20910016	16	16.0	14.2	3	30	3.5	5400	aluminium grey, silvery
20910020	20	20.0	18.2	3	30	4.2	3600	
20910025	25	25.0	22.8	3	30	6.8	2400	
20910032	32	32.0	29.8	3	30	8.7	1440	
20910040	40	40.0	37.8	3	15	5.5	1080	
20910050	50	50.0	47.8	3	15	6.5	630	
20910063	63	63.0	60.8	3	15	9.7	450	

Production-related dimensional tolerances for outside Ø according to EN 60423

Alu Gewinde-ES

Classification code

55561

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Outdoor exposed installation
- Surfaces: matt-finished, extruded
- Rigid aluminium conduit, one threaded coupling
- High corrosion resistance
- Material: aluminium W3.3206
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +250 °C
- Circuit integrity similar to steel conduits
- For accessories, see pages 73, 79-81, 90-95



EN IEC 61386-21

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
21010016	16	M16x1.5	13.2	3	30	5.2	5400	aluminium grey, silvery
21010020	20	M20x1.5	17.0	3	30	7.6	3600	
21010025	25	M25x1.5	22.0	3	30	9.0	2400	
21010032	32	M32x1.5	29.0	3	30	11.7	1440	
21010040	40	M40x1.5	36.8	3	15	7.9	1080	
21010050	50	M50x1.5	46.8	3	15	9.9	630	
21010063	63	M63x1.5	59.4	3	15	14.1	450	

Production-related dimensional tolerances for outside Ø according to EN 60423

Aluminium conduit accessories

AMS-E



- Aluminium push-fit coupling
- High corrosion resistance
- Material: aluminium W3.3206
- Quick connections of Alu Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20950016	16	17.7	16.1	55	50	0.40	aluminium grey, silvery
20950020	20	22.1	20.1	55	50	0.55	
20950025	25	27.5	25.1	60	50	0.90	
20950032	32	34.4	32.1	70	50	1.25	
20950040	40	43.1	40.1	80	20	0.84	
20950050	50	53.1	50.1	95	20	1.20	
20950063	63	66.1	63.1	110	20	1.60	

ABS-E



- 90° aluminium push-fit bend, without coupling
- High corrosion resistance
- Material: aluminium W3.3206
- For closed installation
- For Alu Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20960016	16	16.0	14.2	124	55	15	0.38	aluminium grey, silvery
20960020	20	20.0	18.2	152	80	25	0.88	
20960025	25	25.0	22.8	185	110	25	1.70	
20960032	32	32.0	29.8	221	140	20	2.04	
20960040	40	32.0	37.8	286	170	15	2.31	
20960050	50	50.0	47.8	343	190	5	1.20	
20960063	63	63.0	60.8	403	220	3	1.26	

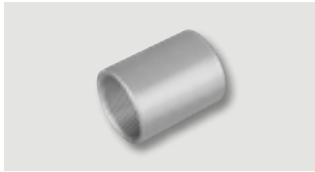
AES-E



- Aluminium push-fit end sleeve
- High corrosion resistance
- Material: aluminium W3.3206
- Edge protection for Alu Steck-ES and Alu Gewinde-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20990016	16	23.3	16.1	53	25	0.20	aluminium grey, silvery
20990020	20	28.2	20.1	53	50	0.55	
20990025	25	35.3	25.1	58	50	0.80	
20990032	32	44.0	32.1	68	50	1.20	
20990040	40	54.0	40.1	78	25	1.10	
20990050	50	66.5	50.1	93	10	0.51	
20990063	63	82.8	63.1	108	5	0.43	

AMG-E



- Threaded aluminium coupling
- High corrosion resistance

- Material: aluminium W3.3206
- High tensile strength connection of Alu Gewinde-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
21050016	16	18.5	M16x1.5	30	50	0.35	aluminium grey, silvery
21050020	20	22.5	M20x1.5	30	50	0.45	
21050025	25	28.1	M25x1.5	36	50	0.90	
21050032	32	35.0	M32x1.5	44	50	1.40	
21050040	40	43.5	M40x1.5	50	20	0.88	
21050050	50	53.5	M50x1.5	60	20	1.30	
21050063	63	66.4	M63x1.5	66	20	1.80	

ABG-E



- 90° threaded aluminium bend, one coupling
- For closed installation
- High corrosion resistance

- Material: aluminium W3.3206
- For Alu Gewinde-ES

Cat. no.	Type	Male thread [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
21060016	16	M16x1.5	13.2	124	55	15	0.68	aluminium grey, silvery
21060020	20	M20x1.5	17.0	152	80	25	1.40	
21060025	25	M25x1.5	22.0	185	110	25	2.35	
21060032	32	M32x1.5	29.0	221	140	20	3.72	
21060040	40	M40x1.5	36.8	286	170	15	4.26	
21060050	50	M50x1.5	46.8	343	190	5	2.43	
21060063	63	M63x1.5	59.4	403	220	3	2.27	

AKS-E



- Aluminium clamp
- Not recommended for overhead installation
- High corrosion resistance
- Material: aluminium W3.3206
- Quick installation of Alu Steck-ES and Alu Gewinde-ES

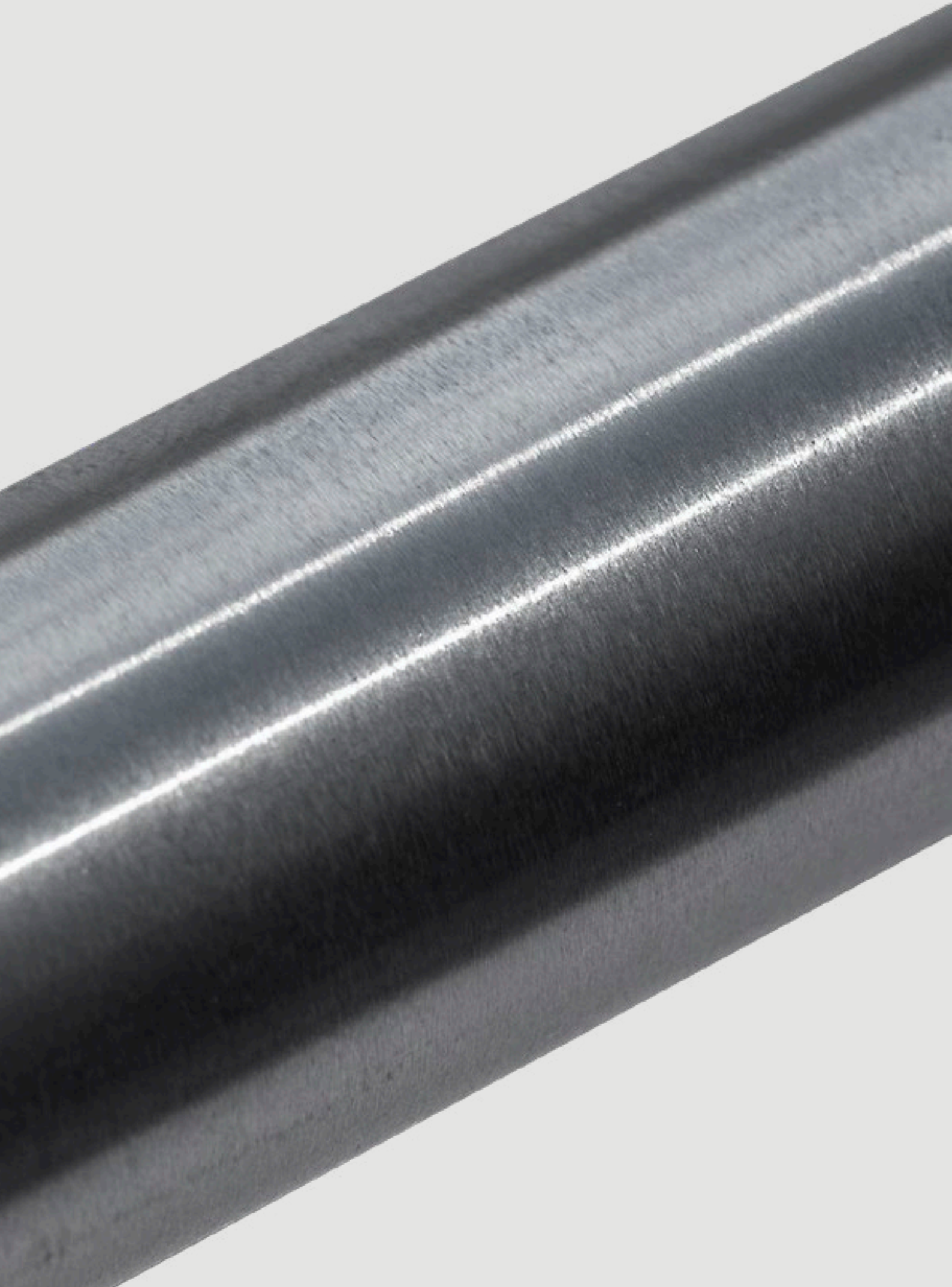
Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20970016	16	21	18	25	5x8	50	0.35	aluminium grey, silvery
20970020	20	25	18	27	5x8	50	0.40	
20970025	25	30	18	30	5x10	50	0.50	
20970032	32	37	18	33	5x10	50	0.55	
20970040	40	46	18	40	6.3x12	20	0.32	
20970050	50	55	18	48	6.3x12	20	0.40	
20970063	63	71	18	58	6.3x12	20	0.62	

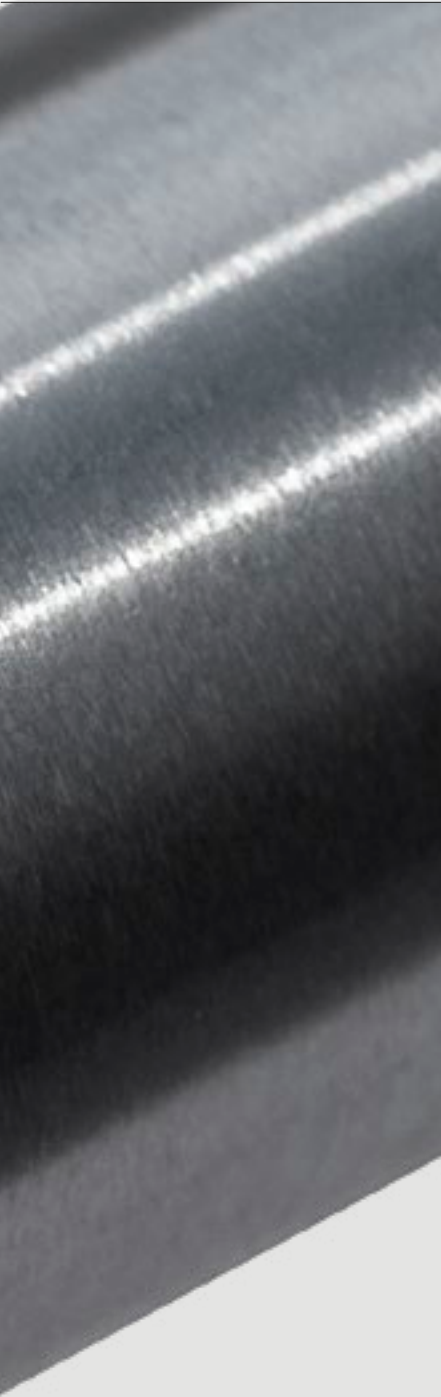
ASG-E



- Aluminium spacing bracket
- Recommended for overhead installation
- High corrosion resistance
- Material: aluminium W3.3206
- Installation of Alu Steck-ES and Alu Gewinde-ES

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20975016	16	47	16	24.5	6.2x10	50	0.60	aluminium grey, silvery
20975020	20	51	16	28.5	6.2x10	50	0.70	
20975025	25	56	16	33.5	6.2x10	50	0.85	
20975032	32	63	16	40.5	6.2x10	25	0.58	
20975040	40	71	16	48.5	6.2x14	25	0.60	
20975050	50	81	16	58.5	6.2x14	25	0.78	
20975063	63	94	16	71.5	6.2x14	20	0.62	





Stainless steel conduits

V2 Steck-ES is a very heavy-duty push-fit stainless steel conduit made of W1.4301, in straight lengths of 3 m.

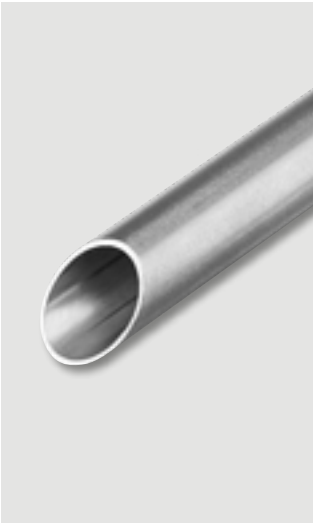
This stainless steel conduit is used in tunnel engineering, water treatment plants, in the food and beverage industry, in breweries as well as for optically appealing electrical installations. Advantages are its high corrosion resistance and stability of value.

To avoid confusion, our stainless steel accessories are made of higher quality material V4A (1.4571).

Stainless steel conduits

V4 Steck-ES co2ntrol®

Classification code **55571**




UV


Under-ground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


H0


Low-smoke


Flame-retardant

- Exposed installation, e.g., in swimming pools or food areas
- Surfaces: glossy, brushed
- Rigid stainless steel conduit, without coupling
- Very high corrosion resistance
- Material: rolled stainless steel W1.4571, AISI 316Ti
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 86-87






ENVIRONMENTAL PRODUCT DECLARATION
Third-party verified | EN 15804 and EN 15958

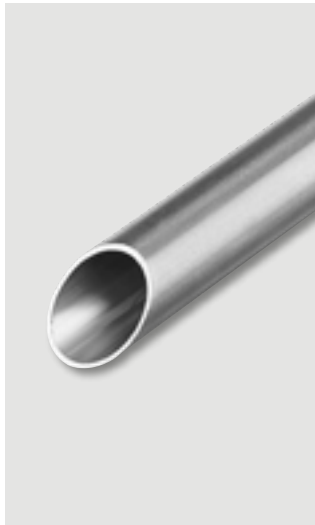
DIN EN IEC 61386-21

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20814016	16	16.0	14.2	3	15	5.4	1800	metallic; brushed
20814020	20	20.0	18.2	3	15	6.6	1200	
20814025	25	25.0	22.8	3	15	10.2	990	
20814032	32	32.0	29.8	3	15	13.2	735	
20814040	40	40.0	37.8	3	9	9.9	594	
20814050	50	50.0	47.8	3	9	13.0	495	
20814063	63	63.0	60.0	3	9	20.7	270	

Production-related dimensional tolerances for outside Ø according to EN 60423
*To be included in the co2ntrol family soon.

V2 Steck-ES co2ntrol®

Classification code

55571


- Exposed installation, e.g., in the food industry
- Surfaces: glossy, brushed
- Rigid stainless steel conduit, without coupling
- High corrosion resistance
- Material: rolled stainless steel W1.4301, AISI 304
- Very heavy compressive strength (4000 N/5 cm)
- Very heavy impact strength (6.8 kg/300 mm)
- Temperature range from -45 °C to +400 °C
- For accessories, see pages 86-87



DIN EN IEC 61386-21

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Colour
20810016	16	16.0	14.2	3	15	5.4	1800	metallic; brushed
20810020	20	20.0	18.2	3	15	6.6	1200	
20810025	25	25.0	22.8	3	15	10.2	990	
20810032	32	32.0	29.8	3	15	13.2	735	
20810040	40	40.0	37.8	3	9	9.9	594	
20810050	50	50.0	47.8	3	9	13.0	495	
20810063	63	63.0	60.0	3	9	20.7	270	

Production-related dimensional tolerances for outside Ø according to EN 60423

*To be included in the co2ntrol family soon.

Stainless steel conduit accessories

VMS-E



- Stainless steel push-fit coupling
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- Quick connection of V2 Steck-ES and V4 Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20850016	16	18.0	16.1	55	5	0.10	metallic; brushed
20850020	20	22.0	20.1	55	5	0.15	
20850025	25	28.0	25.1	60	5	0.30	
20850032	32	34.0	32.1	70	5	0.29	
20850040	40	43.0	40.1	80	3	0.37	
20850050	50	52.0	50.1	95	3	0.37	
20850063	63	65.0	63.1	110	3	0.79	

VBS-E



- 90° stainless steel push-fit bend, without coupling
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- For closed installation
- For V2 Steck-ES and V4 Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Radius [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20860016	16	16.0	14.2	124	55	5	0.37	metallic; brushed
20860020	20	20.0	18.2	152	80	5	0.55	
20860025	25	25.0	22.8	185	110	5	1.01	
20860032	32	32.0	29.8	221	140	5	1.54	
20860040	40	32.0	37.8	286	170	3	1.51	
20860050	50	50.0	47.8	343	190	3	2.37	
20860063	63	63.0	60.0	370	209	3	4.49	

VES-E



- Stainless steel push-fit end cap
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- Edge protection for V2 Steck-ES and V4 Steck-ES

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20890016	16	23.3	16.1	53	5	0.10	metallic; brushed
20890020	20	28.2	20.1	53	5	0.15	
20890025	25	35.3	25.1	58	5	0.30	
20890032	32	44.0	32.1	68	5	0.29	
20890040	40	54.0	40.1	78	3	0.37	
20890050	50	66.5	50.1	93	3	0.37	
20890063	63	83.0	63.1	108	3	0.80	

VSG-E



- Stainless steel spacing bracket
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- Installation of V2 Steck-ES and V4 Steck-ES

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Long hole [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
20870016	16	47	16	24.5	6.2x10	25	0.53	metallic; brushed
20870020	20	51	16	28.5	6.2x10	25	0.58	
20870025	25	56	16	33.5	6.2x10	25	0.93	
20870032	32	63	16	40.5	6.2x10	25	1.08	
20870040	40	71	16	48.5	6.2x14	10	0.56	
20870050	50	81	16	58.5	6.2x14	10	0.68	
20870063	63	94	16	71.5	6.2x14	10	0.55	

Stainless steel requires cleaning, too!

If stainless steel regularly comes into contact with liquids containing chlorine and salt, especially when subjected to spray or drops, this can lead to an increase in the content of chloride ions, which can permanently damage the surface. Regular cleaning of the surfaces with appropriate cleaning agents can help to prevent this from happening.

Please refer to: The German Association for the Recreational and Medicinal Bath Industry (*Deutsche Gesellschaft für das Badewesen e.V.*) "BäderPortal" <http://www.baederportal.com/>

In the cold water area, stainless steel V2 is recommended for a chloride concentration of 200 mg/l, and stainless steel V4 for that of 500 mg/l.





General accessories

The best conduit is of no use without suitable accessories for installation, processing, connection or supplementing.

As the market leader, we consider it our duty to offer the right accessories for our products and to continue expanding our product range so that you always have the right part available at the construction site.

General accessories

SMSKu-UE 20-25



- High tensile strength plastic transition coupling
- Adapter from type 25 to type 20
- Material: PE
- For all corrugated conduits

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25957025	20/25	28.1	63	10	0.13	blue

SMSKu-ER



- Plastic claw coupling
- 4 stops per side
- Secure connection of corrugated conduits without sheathing
- Material: PA66
- For all corrugated conduits
- Halogen-free

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25940020	20	42.0	23.0	23.0	25	0.13	black
25940025	25	56.0	28.0	28.0	25	0.20	

SMSKu-EZF



- High tensile strength plastic push-fit coupling
- Concrete-tight
- Material: PE
- For all corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25950016	16	63.2	19	19	25	0.13	trans- parent
25950020	20	63.1	23	23	50	0.35	
25950025	25	63.1	28.1	28.1	50	0.44	
25950032	32	76.4	35.1	35.1	25	0.38	
25950040	40	80.9	43.2	43.2	25	0.48	
25950050	50	106.7	53.6	53.6	10	0.36	
25950063	63	126.4	66.4	66.4	5	0.24	

RMKu-E



- Plastic push-fit coupling
- Cross grooves for better locking
- Material: PE
- For all corrugated conduits containing halogen

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25930016	16	55.5	17.3	17.3	50	0.09	trans- parent
25930020	20	55.5	21.6	21.6	100	0.28	
25930025	25	74	26.7	26.7	100	0.53	
25930032	32	74	33.7	33.7	50	0.35	
25930040	40	102	41.8	41.8	25	0.32	
25930050	50	102	51.5	51.8	10	0.18	

FRVS-E



- Conduit blanking plug
- Sealing at the construction site
- To protect unused conduits
- Material: PE
- Five identification plates included per packing unit
- For all corrugated and straight length conduits

Cat. no.	Type	Outside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25970016	16	32.5	15	100	0.11	red
25970020	20	30.5	18	100	0.11	green
25970025	25	33.5	23	100	0.23	purple
25970032	32	37.5	30	50	0.17	blue
25970040	40	36.5	36	50	0.25	yellow
25970050	50	40.5	45	25	0.20	black
25970063	63	41.5	59	10	0.11	

Identification plate



- For FRVS-E
- With large labelling surface
- Material: PE
- Push-fit to the FRVS-E lug

Cat. no.	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
15971000	51.6	12.8	4.4	100	0.08	white

E-Lock



- Threaded plastic connector
- Halogen-free, UV-resistant, IP66
- Material: PA6
- For all corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Male thread [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25958020	20	43	30	30	20x1.5	25	0.3	black
25958025	25	44	35	35	25x1.5	25	0.4	

FWVS-E



- Airtight and smoketight plug
- Membrane to insert wires and cables
- Material: TPE
- For all corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25975016	16	13.8	14.6	25	0.03	grey
25975020	20	18	18	50	0.08	
25975025	25	22	18	50	0.11	
25975032	32	29	27.2	25	0.17	
25975040	40	38	20.7	25	0.19	

FRS



- Pipe cutter made of high-tensile special steel
- Clean and burr-free cut
- Fibre glass reinforced plastic handles
- For cutting 7-25 mm conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25999025	25	192	83	27	1	0.18	black

E-Ku-ET



- Two-piece plastic end sleeve
- Installation after cable insertion possible
- Halogen-free
- Material: PE
- Edge protection for all metal conduits and straight length plastic conduits

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25997020	20	23.5	19.8	22	100	0.21	grey
25997025	25	29.0	24.8	27	100	0.31	
25997032	32	35.0	32.8	32	50	0.23	
25997040	40	44.0	39.8	34	50	0.30	
25997050	50	52.0	49.8	44	25	0.25	

E-Ku-ET-UV



- Two-piece plastic end sleeve
- Installation after cable insertion possible
- Halogen-free
- Material: PE
- Edge protection for all metal conduits and straight length plastic conduits
- UV-stabilised
- UV-resistant for up to 10 years

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25998020	20	23.5	19.8	22	100	0.21	black
25998025	25	29.0	24.8	27	100	0.31	
25998032	32	35.0	32.8	32	50	0.23	
25998040	40	44.0	39.8	34	50	0.30	
25998050	50	52.0	49.8	44	25	0.25	

E-Ku-E



- Plastic end sleeve
- Easy installation
- Halogen-free
- Material: PE
- Edge protection for all metal conduits and straight length plastic conduits

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25995016	16	18.5	15.8	20	100	0.10	grey
25995020	20	23.5	19.8	22	100	0.18	
25995025	25	29.0	24.8	26	100	0.35	
25995032	32	35.0	32.8	33	50	0.250	
25995040	40	44.0	39.8	39	50	0.39	
25995050	50	52.0	49.8	47	25	0.31	
25995063	63	67.5	62.8	59	20	0.44	

E-Ku-E-UV



- Plastic end sleeve
- Easy installation
- Halogen-free
- Material: PE
- Edge protection for all metal conduits and straight length plastic conduits
- UV-stabilised
- UV-resistant for up to 10 years

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
25996016	16	18.5	15.8	20	100	0.10	black
25996020	20	23.5	19.8	22	100	0.18	
25996025	25	29.0	24.8	26	100	0.35	
25996032	32	35.0	32.8	33	50	0.25	
25996040	40	44.0	39.8	39	50	0.39	
25996050	50	52.0	49.8	47	25	0.31	
25996063	63	67.5	62.8	59	20	0.44	





Underground conduits

Kabuflex R plus 450 co2ntrol is a pliable PE cable conduit available in black. Thanks to its composite design with optimised inner surface, cables can be inserted quickly. It also features high compressive strength as well as improved stability thanks to the high-quality materials used. The delivery of this conduit includes both an attached transparent coupling (sandtight) and a feed cord.

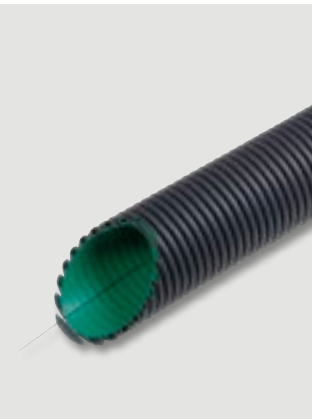
The Kabuflex family offers a wide range of conduits for a multitude of applications. The comprehensive range of accessories includes, among other things, profile sealing rings which, in combination with the Kabuflex couplings, ensure a watertight connection between conduits.

Sustainable cable conduits, the Kabuflex R plus conduits have undergone a systematic analysis of all input and output flows and feature an Environmental Product Declaration (EPD). Hence, Kabuflex R plus 450 co2ntrol and Kabuflex R plus 750 co2ntrol conduits now bear the type III ecolabel and are suited for resource-conserving and environmentally compatible construction of buildings.

Underground conduits

Kabuflex R plus 450 co2ntrol®

Classification code **N450**





UV

Under-ground

Void

Screed

Concrete

Exposed

Concealed

Asphalt

Halogen-free

Low-smoke

Flame-retardant

- Underground cable protection
 - Green inner surface for quicker cable insertion
 - With feed cord and transparent coupling (sandtight)
- Material: PE
 - Compressive stress type 450 and normal impact strength
 - Temperature range from -5 °C to +90 °C
 - For accessories, see pages 103-107, 116-117



EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19210040	40	40.0	31.0	50	7.3	350	black
19210050	50	50.0	40.0	50	9.6	350	
19210063	63	63.0	52.0	50	13.6	350	
19210075	75	75.0	62.0	50	16.6	350	
19210090	90	90.0	75.0	50	21.7	350	
19210110	110	110.0	93.0	50	27.2	500	
19210125	125	125.0	106.0	25	18.0	600	
19210160	160	160.0	137.0	25	28.9	750	
19210200	200	200.0	173.0	25	39.4	750	

Production-related dimensional tolerances for outside Ø acc. to EN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C.

Kabuflex R plus 750 co2ntrol®

Classification code

N750


- Cable protection in concrete and underground
- For building lead-throughs according to VDE-AR-N 4100 (TAR low voltage)
- Green inner surface for quicker cable insertion
- With feed cord and transparent coupling (sandtight)
- Material: PE
- Compressive stress type 750 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107, 116-117


 EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19230075	75	75.0	62.0	50	26.5	350	grey
19230090	90	90.0	75.0	50	36.0	350	
19230110	110	110.0	93.0	50	47.5	500	
19230125	125	125.0	106.0	25	27.7	600	
19230160	160	160.0	136.0	25	41.2	750	

Production-related dimensional tolerances for outside Ø acc. to EN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C.

Kabuflex® R

Classification code

N450

- Underground cable protection
- Inner surface for easy cable insertion
- With feed cord and Kabuflex coupling (sandtight)
- Material: PE
- Compressive stress type 450 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107



EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19130040	40	40.0	32.0	50	7.0	350	black
19130050	50	50.0	40.0	50	9.0	350	
19130063	63	63.0	52.0	50	12.8	350	
19130075	75	75.0	62.0	50	17.0	350	
19130090	90	90.0	75.0	50	22.5	350	
19130110	110	110.0	93.0	50	31.0	500	
19130120	120	120.0	99.0	25	18.0	500	
19130125	125	125.0	107.0	25	19.3	600	
19130160	160	160.0	138.0	25	26.3	750	
19130200	200	200.0	172.0	25	38.8	750	

19132040	40	40.0	32.0	50	7.0	350	red
19132050	50	50.0	40.0	50	9.0	350	
19132063	63	63.0	52.0	50	12.8	350	
19132075	75	75.0	62.0	50	17.0	350	
19132090	90	90.0	75.0	50	22.5	350	
19132110	110	110.0	93.0	50	31.0	500	
19132125	125	125.0	107.0	25	19.3	600	
19132160	160	160.0	138.0	25	26.3	750	

Production-related dimensional tolerances for outside Ø acc. to EN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C

Kabuflex® R - UV

Classification code

N450


- Cable protection above ground
- UV-resistant for up to 10 years
- Inner surface for easy cable insertion
- With feed cord and Kabuflex coupling (sandtight)
- Material: PE
- Compressive stress type 450 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107


 EN IEC 50626-1
(EN IEC 61386-24)

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
19140040	40	40.0	32.0	50	7.0	350	black
19140050	50	50.0	40.0	50	9.0	350	
19140063	63	63.0	52.0	50	12.8	350	
19140110	110	110.0	93.0	50	27.2	500	

Production-related dimensional tolerances for outside Ø acc. to EN IEC 50626-1

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C

Kabuflex® S

Classification code

N450

UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



Flame-retardant

- Underground cable protection
- Straight installation in case of long distances in the cable route
- Pliable
- Smooth inner surface for easy cable insertion

- Material: PE
- Compressive stress type 450 and normal impact strength
- Temperature range from -5 °C to +90 °C
- For accessories, see pages 103-107



EN 61386-24

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	Weight per straight length [kg]	Pallet content [m]	Bend radius* ≥ [mm]	Colour
3 m straight lengths with coupling (SD)								
19021075	75	75.0	63.0	3	1.14	630	2000	black
19021110	110	110.0	94.0	3	1.80	300	2800	
19021120	120	120.0	99.0	3	2.20	270	3000	
19021125 ^a	125	125.0	107.0	3	2.32	231	3200	
19021145	145	145.0	125.0	3	2.74	180	3600	
19021160	160	160.0	137.0	3	3.46	138	4000	
19021175	175	175.0	149.0	3	3.96	126	4500	
6 m straight lengths without coupling								
19040075	75	75.0	63.0	6	2.26	1260	2000	black
19040110	110	110.0	94.0	6	3.58	600	2800	
19040120	120	120.0	99.0	6	4.38	540	3000	
19040125	125	125.0	107.0	6	4.62	462	3200	
19040145	145	145.0	125.0	6	5.46	360	3600	
19040160	160	160.0	137.0	6	6.90	276	4000	
19040175	175	175.0	149.0	6	7.90	252	4500	
19042075	75	75.0	63.0	6	2.26	1260	2000	red
19042110	110	110.0	94.0	6	3.58	600	2800	
19042120 ^a	120	120.0	99.0	6	4.38	540	3000	
19042125	125	125.0	107.0	6	4.62	462	3200	
19042160	160	160.0	137.0	6	6.90	276	4000	
19042175 ^a	175	175.0	149.0	6	7.90	252	4500	

Production-related dimensional tolerances for outside Ø acc. to EN 61386-24

a = available on request

* Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C

Underground conduit accessories

Kabuflex® bend



- Bend for small bend radii in the cable route
- Material: PE
- For Kabuflex S

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	Radius* [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
45° bend								
19085075	75	75.0	63.0	0.9	750	5	1.70	black
19085110	110	110.0	94.0	1.0	900	5	2.98	
19085120	120	120.0	99.0	1.0	900	5	3.88	
19085125	125	125.0	107.0	1.1	1100	5	4.45	
19085145	145	145.0	125.0	1.2	1100	5	5.25	
19085160	160	160.0	137.0	1.2	1100	5	6.05	
19085175	175	175.0	149.0	1.2	1100	5	7.55	

90° bend								
19080075	75	75.0	63.0	1.5	750	5	2.83	black
19080110	110	110.0	94.0	1.8	900	5	5.35	
19080120	120	120.0	99.0	1.9	900	5	6.85	
19080125	125	125.0	107.0	2.0	1100	5	7.93	
19080145	145	145.0	125.0	2.1	1100	5	9.55	
19080160	160	160.0	137.0	2.1	1100	5	11.03	
19080175	175	175.0	149.0	2.1	1100	5	13.80	

Production-related dimensional tolerances for outside acc. to EN 61386-24

* Radius in relation to the pipe axis

Transparent Kabuflex® coupling



- Connection for all Kabuflex conduits
- Material: PE
- Visual inspection of the insertion depth and the profile sealing ring
- Sandtight
- UV-resistant for up to 10 years
- Watertight up to 0.5 bar with profile sealing ring

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19250040	40	47.1	40.0	83	1	0.02	trans- parent
19250050	50	57.9	50.0	100	1	0.03	
19250063	63	73.0	63.0	110	1	0.04	
19250075	75	84.2	75.0	130	1	0.05	
19250090	90	100.5	90.0	148	1	0.10	
19250110	110	122.8	110.0	162	1	0.11	
19250125	125	142.2	125.0	200	1	0.20	
19250160	160	173.9	160.0	221	1	0.34	
19250200*	200	211.7	202.6	190	1	0.43	

* With profile sealing ring only suited for Kabuflex R plus.

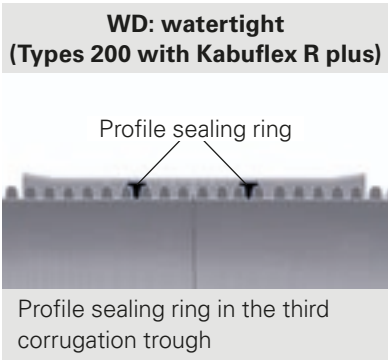
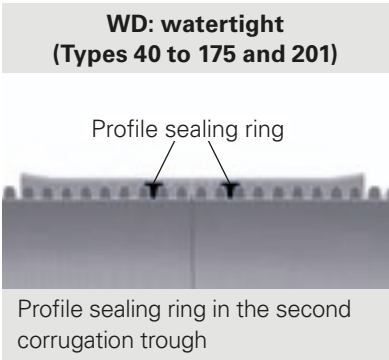
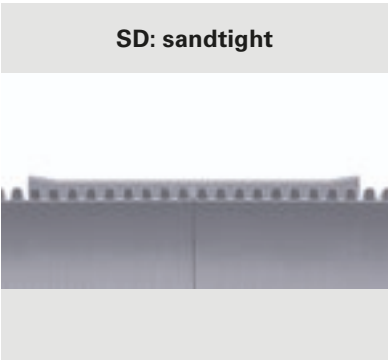
Kabuflex® coupling



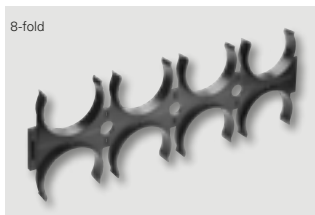
- Connection for all Kabuflex conduits
- Sandtight
- Material: PE
- Watertight up to 0.5 bar with profile sealing ring

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19910040	40	47.1	40.0	83	1	0.02	black
19910050	50	57.9	50.0	100	1	0.02	
19910063	63	73.0	63.0	110	1	0.04	
19910075	75	84.2	75.0	130	1	0.06	
19910090	90	100.5	90.0	148	1	0.14	
19910110	110	122.8	110.0	162	1	0.18	
19910120	120	130.9	120.0	196	1	0.19	
19910125	125	142.2	125.0	200	1	0.20	
19910145	145	157.2	145.0	219	1	0.27	
19910160	160	177.2	162.9	224	1	0.32	
19910175	175	193.0	175.0	222	1	0.30	
19911200*	200	211.7	202.6	190	1	0.43	
19911201**	200	216.0	203.0	190.0	1	0.42	

* Sandtight
** Watertight WD for Kabuflex R, profile sealing rings required (to be ordered separately)



Spacer



■ For Kabuflex conduit packages

■ Exact spacing for professional sanding up prevents deformation

■ Material: PP

■ Can be separated as required using standard tools

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
2-fold							
19942075	75	105	12	125	1	0.02	black
19942090	90	125	14	148	1	0.03	
19942110	110	146	30	208	1	0.08	
19942120	120/125	154	33	220	1	0.10	
19942160	160	225	33	313	1	0.13	
19942200	200	290	30	350	1	0.33	
4-fold							
19944075	75	208	12	125	1	0.04	black
19944090	90	247	14	148	1	0.06	
19944110	110	286	30	208	1	0.15	
19944120	120/125	313	33	220	1	0.19	
19944160	160	445	33	313	1	0.24	
19944200	200	560	30	350	1	0.65	
6-fold							
19946050	50	239	14	100	1	0.05	black
19946075	75	305	12	125	1	0.06	
19946090	90	360	14	148	1	0.10	
19946110	110	426	30	208	1	0.22	
19946120	120/125	468	33	220	1	0.27	
19946160	160	665	33	313	1	0.35	
19946200	200	850	30	350	1	0.98	
8-fold							
19948050	50	324	14	100	1	0.06	black
19948075	75	408	12	125	1	0.08	
19948090	90	482	14	148	1	0.13	
19948110	110	572	30	208	1	0.28	
19948120	120/125	622	33	220	1	0.36	
19948160	160	885	33	313	1	0.46	
19948200	200	1140	30	350	1	1.30	

Spacer for Kabuflex S, every 1.5 m, for Kabuflex R series, at least every 1.0 m

Due to the production process, the spacers can only be joined together to a limited extent

Kabuflex® profile sealing ring



- Watertight connection of Kabuflex conduits
- Material: EPDM
- In connection with Kabuflex couplings
- Watertight up to 0.5 bar

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19980040	40	43.0	30.3	4.2	1	0.01	black
19980050	50	53.0	39.0	5.0	1	0.01	
19980063	63	65.5	49.7	5.1	1	0.01	
19980075	75	65.0	58.5	4.0	1	0.01	
19980090	90	80.0	67.6	5.0	1	0.01	
19980110	110	95.0	82.7	8.0	1	0.02	
19980120	120	105.0	87.5	8.0	1	0.02	
19980125	125	122.0	87.5	8.8	1	0.02	
19980145	145	145.0	110.3	10.0	1	0.04	
19980160	160	145.0	125.0	10.0	1	0.05	
19980175	175	155.0	142.0	10.0	1	0.04	
19980200	200	199.5	167.5	16.0	1	0.06	

Kabuflex® SD end cap



- Sandtight sealing
- Material: PE
- For all Kabuflex conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19970040	40	38	38	16	1	0.01	yellow; trans- parent
19970050	50	46	46	16	1	0.01	
19970063	63	58	58	16	1	0.01	
19970075	75	68	68	14	1	0.01	
19970090	90	87	87	18	1	0.02	
19970110	110	106	106	19	1	0.02	
19970120	120	110	110	20	1	0.02	
19970125	125	125	125	20	1	0.02	
19970145	145	133	133	25	1	0.04	
19970160	160	145	145	25	1	0.04	
19970175	175	160	160	35	1	0.04	
19970200	200	200	200	56	1	0.08	

Reducer



- Kabuflex/KG conduit adapter
- Material: PVC
- Watertight up to 0.5 bar with profile sealing ring
- For all Kabuflex conduits

Cat. no.	Type	Outside Ø KG-side [mm]	Inside Ø Kabu-side [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19995110*	110	110	110	300	1	0.47	black
19995160**	160	160	160	350	1	1.25	

* For KG conduit 100 (push-fit KG coupling)

** For KG conduit 150 (push-fit KG coupling)

Kabuflex® WD end cap



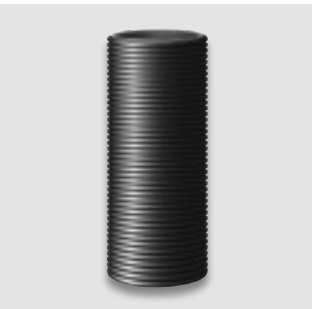
- Watertight sealing incl. profile sealing ring
- Material: ABS
- For all Kabuflex conduits
- Watertight up to 0.5 bar

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19971090^a	90	104.4	91.7	82.3	1	0.09	black
19971110	110	127.2	112.0	102.0	1	0.03	
19971120	120	132.2	120.0	108.0	1	0.14	
19971125	125	140.2	127.9	109.0	1	0.14	
19971160	160	175.4	162.9	122.0	1	0.20	
19971175	175	203.0	175.9	93.0	1	0.27	

a = available on request

Pole foundation conduit

Furowell



- Underground installation
- For all types of poles, masts and rods
- Preparation for charging poles and stands
- Structured-wall design for high stability
- Material: PE (DN 500: PP)
- Easy lateral drilling of connection openings using commercially available hole saws

Cat. no.	Technical data	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	Packing unit [pcs.]	Packing unit weight [kg]	Pallet content [pcs.]	Colour
29510250	DN 250	293	253	0.8	1	2.60	22	black
29510350	DN 350	400	345	0.8	1	5.20	12	
29511250	DN 250	293	253	1.0	1	3.25	22	black
29511300	DN 300	346	300	1.0	1	4.10	12	
29511350	DN 350	400	345	1.0	1	6.50	12	
29510500*	DN 500	571	497	1.0	1	13.00	2	
29512250	DN 250	293	253	1.5	1	4.88	11	black
29512350	DN 350	400	345	1.5	1	9.75	6	

* with yellow inside and incl. screwed transparent cover as protection against dirt during the construction phase



Furowell foundation conduits firmly secure rods and masts in the ground.

Accessories for foundation conduits

Furowell end cap



■ Sandtight sealing

■ Material: PE

■ For all Furowell conduits

Cat. no.	Technical data	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
29570250	DN 250	270	270	25	1	0.09	yellow
29570300	DN 300	346	346	66	1	0.53	black
29570350	DN 350	400	400	80	1	0.38	

Cable protection

FRH round cable protectors



- To protect all types of underground cables
- Material: PVC
- Safe recognition thanks to red signal colour
- Temperature range from -5 °C to +60 °C
- Suspension for connection
- Can be joined together as required

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [m]	Packing unit weight [kg]	Pallet content [m]	Colour
18040040	40	1000	44	42	1	0.25	1500	red
18040050	50	1000	54	52	1	0.26	1500	
18040060	60	1000	62	70	1	0.30	1500	
18040080	80	1000	82	70	1	0.43	1000	
18040100	100	1000	102	70	1	0.50	1000	

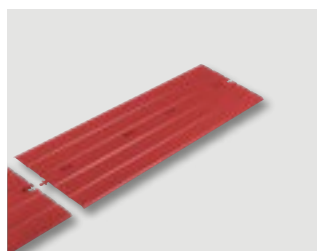
FHA cable protectors



- To protect all types of underground cables
- Material: PVC
- Safe recognition thanks to red signal colour
- Temperature range from -5 °C to +60 °C
- Suspension for connection
- Can be joined together as required

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [m]	Packing unit weight [kg]	Pallet content [m]	Colour
18140110	110	1000	112	25	1	0.30	1500	red
18140120	120	1000	122	25	1	0.32	1500	
18140160	160	1000	162	25	1	0.40	1500	
18140180	180	1000	182	25	1	0.48	1000	
18140200	200	1000	202	25	1	0.56	1000	

FPL cable cover plates



- To protect all types of underground cables
- Safe recognition thanks to red signal colour
- Suspension for connection
- Material: PVC
- Temperature range from -5 °C to +60 °C
- Can be joined together as required

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [m]	Packing unit weight [kg]	Pallet content [m]	Colour
18240120	120	1000	126	7	1	0.32	1500	red
18240180	180	1000	186	7	1	0.32	1500	
18240200	200	1000	204	7	1	0.48	1500	
18240250	250	1000	254	7	1	0.65	1000	
18240300	300	1000	304	7	1	0.78	750	

FTWB warning tape



- Warning tape for early detection during earthworks
- Warns of underground cables and conduits
- Material: PE
- Inscription: "Achtung Starkstromkabel" (Caution: High-voltage cable)

Cat. no.	Spool content [m]	Tape width [mm]	Thickness [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
18410000	250	40	0.15	1	1.7	yellow





Building lead-throughs, conduit and cable sealings

Kabu-FESH Set Elektro B, the FRÄNKISCHE building lead-through system for the Electrical Systems division is a one-use building lead-through set for buildings without basement for installation in the foundation slab. The set consists of a high-quality Kabuflex R plus 750 co2ntrol cable conduit, a wall collar set, two sandtight SD end caps, and the leak-tested Kabu-IN DD internal seal for the reliable lead-through of power or telecommunication cables.

This building lead-through is embedded in the foundation slab.

The advantages of the system are the easy installation of the cable conduit up to the utilities room, easy cutting of the conduit at the required height of the floor structure, and the individual adjustment to different cable diameters on site thanks to the segment ring technology of the Kabu-IN DD sealing.

Building lead-through

Kabu®-FESH Set Elektro B

Classification code **N750**




UV


Underground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


Halogen-free


Low-smoke


Flame-retardant

- Building lead-through for embedding in the foundation slab
- For power and telecommunication cables
- Variable height adjustment
- Set includes: Kabuflex R plus 750 co2ntrol, Kabu-IN DD, wall collar set and two end caps SD
- Tightness tested according to DVGW VP601
- Waterproof concrete wear class 1 + 2, W1-E according to DIN 18533
- Complies with TAB 2023
- Radon-tight



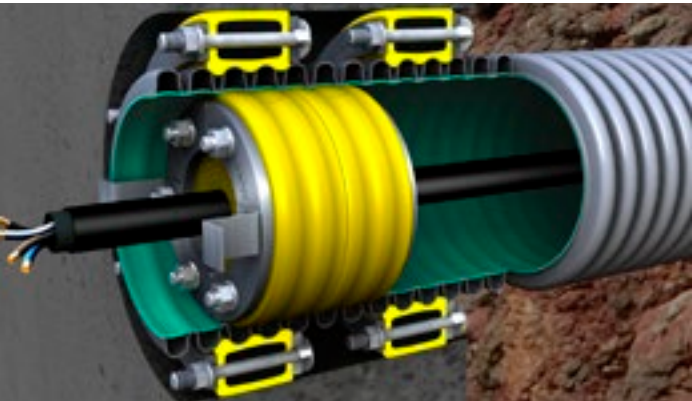
EN IEC 50626-1
VDE-AR-N-4100

Cat. no.	Type	Coil content [m]	Cable Ø [mm]	Tightness [bar]	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Pallet content [pcs.]
19241075	75	6	1x 7-24	1.5	780	190	780	1	5.0	6
19242075	75	10	1x 7-24	1.5	780	300	780	1	7.8	4
19241110	110	6	1x 7-48	1	780	300	780	1	8.7	4
19242110	110	10	1x 7-48	1	1170	780	385	1	13.0	2

For the gas-tight and water pressure-tight building lead-through of power and communication cables.



Foundation slab lead-through with wall collar, Kabu-IN DD and Kabuflex R plus 750 co2ntrol



Wall lead-through with Kabu-Seal, Kabu-IN DD and Kabuflex R plus 750 co2ntrol





Conduit sealings

Kabu®-Seal



- Conduit sealings for Kabuflex conduits
- For core drill holes and casings
- Gas-tight and water pressure-tight up to 1.5 bar
- Material: EPDM/PUR - V2A compressive flange
- Visual inspection of the tightening torque
- Radon-tight



Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Core drill hole [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19965063	63	98	64	100	60	40	1	0.57	yellow
19965075	75	123	76	125	60	40	1	0.95	
19965090	90	123	92	125	60	40	1	0.64	
19965110	110	148	111	150	60	40	1	0.94	
19965125	125	198	127	200	80	60	1	2.60	
19965160	160	198	162	200	80	60	1	1.52	
19965200	200	298	202	300	80	60	1	5.76	

Wall collar set



- Conduit sealings for Kabuflex conduits
- For embedding in concrete
- Gas-tight and water pressure-tight up to 3 bar
- Material: EPDM
- Incl. tightening strap and tightening locks
- Radon-tight



Cat. no.	Type	Outside Ø [mm]	Inside Ø from to [mm]	Core drill hole [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19960040	40	136	38-42	~250	60	1	0.27	black
19960050	50	150	48-53	~250	60	1	0.31	
19960063	63	160	60-64	~250	60	1	0.36	
19960075	75	170	71-80	~250	60	1	0.41	
19960090	90	182	84-92	~300	60	1	0.44	
19960110	110	205	108-116	~300	60	1	0.47	
19960120	120 / 125	217	120-130	~300	60	1	0.52	
19960160	160	255	154-166	~350	60	1	0.71	
19960175	175	272	175-190	~350	60	1	0.78	

Cable sealings

Kabu®-IN

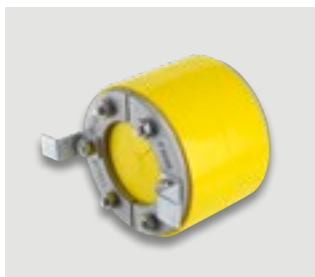


- Cable sealings for Kabuflex conduits
- Internal conduit sealing
- Two-piece
- Gas-tight and water pressure-tight up to 0.5 bar with Kabuflex R plus, up to 0.3 bar with Kabuflex R and S
- Material: PUR/EPDM – V2A compressive flanges
- Visual inspection of the tightening torque
- Segmented cable sealing insert
- Radon-tight



Cat. no.	Type	Outside Ø [mm]	Cable Ø [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
1 cable								
19951063	63	50	7-18	64	30	1	0.21	yellow
19951075	75	61	7-24	64	30	1	0.29	
19951090	90	74	7-36	64	30	1	0.40	
19951110	110	92	7-48	64	30	1	0.60	
2 cables								
19952110	110	92	7-18 7-36	64	30	1	0.66	yellow
3 cables								
19953160	160	135	3 x 7-42	64	30	1	1.36	yellow
4 cables								
19954110	110	92	4 x 7-18	64	30	1	0.70	yellow
19954160	160	135	4 x 7-36	64	30	1	1.36	
6 cables								
19956160	160	135	6 x 7-30	64	30	1	1.36	yellow

Kabu®-IN DD



- Cable sealings for Kabuflex conduits
- Internal conduit sealing
- Two-piece
- Gas-tight and water pressure-tight up to 1.5 bar with Kabuflex R plus 750 co2ntrol
- Material: PUR/EPDM – V2A compressive flanges
- Visual inspection of the tightening torque
- Segmented cable sealing insert
- Radon-tight



Cat. no.	Type	Outside Ø [mm]	Cable Ø [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
1 cable								
19961075	75	61	7-24	94	60	1	0.40	yellow
19961090	90	74	7-36	94	60	1	0.56	
19961110	110	92	7-48	94	60	1	0.84	
4 cables								
19964110	110	92	4 x 7-18	94	60	1	0.98	yellow

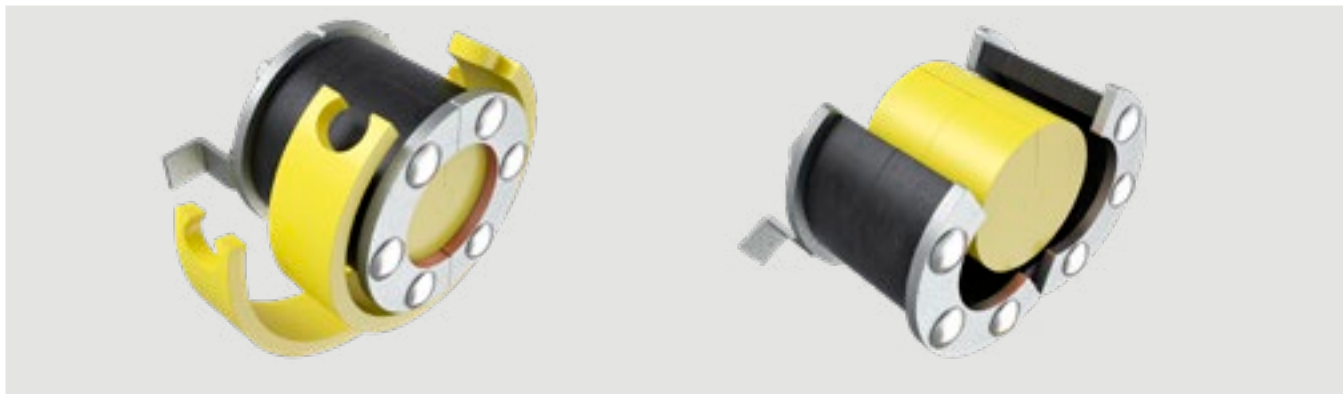
Kabu®-BV



- End plug for Kabuflex conduits
- Gas-tight and water pressure-tight up to 0.5 bar with Kabuflex R plus, up to 0.3 bar with Kabuflex R and S
- Installation without tools
- Material: PUR/EPDM – V2A compressive flanges
- Visual inspection of the tightening torque
- Radon-tight



Cat. no.	Type	Outside Ø* [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19950063	63	50	64	30	1	0.18	yellow
19950075	75	61	64	30	1	0.26	
19950090	90	74	74	30	1	0.52	
19950110	110	92	74	30	1	0.58	
19950160	160	135	81	30	1	1.23	

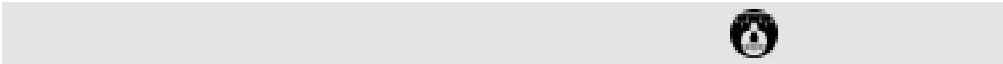


Wall lead-through

FA 150 VBF-K



- Front flange for dowelling
- In front of core drillings and openings up to 150 mm
- For FA 150 sealing inserts (DE)
- Material: PA6.6/GF35, EPDM
- For black and white tanks
- Gas-tight and water pressure-tight up to 1 bar
- Including fastening material



Cat. no.	Inside Ø [mm]	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19701011	160	253	253	59	1	1.3	black

FA 150 DE-WR



- FA 150 sealing insert corrugated conduit
- For insertion into FA 150 VBF-K front flange
- For Kabuflex R plus conduits
- Material: V2A, EPDM, PUR
- Gas-tight and water pressure-tight up to 1 bar with Kabuflex R plus 750 co2ntrol



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19721110	110	159	112	54	30	1	1.02	black-yellow

FA 150 DE-KD



- FA 150 cable sealing insert
- For insertion into FA 150 VBF-K front flange
- For the building lead-through of cables and conduits
- Material: V2A, EPDM, PUR
- Gas-tight and water pressure-tight up to 0.5 bar



Cat. no.	Outside Ø* [mm]	Cable Ø [mm]	Height [mm]	Sealing width [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
19722360	159	3x 7-54	54	30	1	1.62	black-yellow
19722640	159	6x 7-36	54	30	1	1.70	





Resealable corrugated conduits

Co-flex PP-UV is a resealable, slit corrugated conduit made of PP-MOD-BS-UV. It is non-flame propagating and available in black.

Co-flex PP-UV allows the retrofit protection of cables. The high UV stability and durability of 20 years outdoors makes the conduits particularly suitable for photovoltaic systems and satellite systems.

In addition, Co-flex PP-UV provides protection against damage from marten and rodent bites.

Resealable corrugated conduits

Co-flex PP



- Resealable, slit corrugated conduit
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites
- Material: PP
- Very light compressive and medium impact strength
- Temperature range from -40°C to +135 °C
- For accessories, see pages 125-126



EN IEC 61386-23

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
37000600	6	10.0	6.3	50	1.1	40	black
37001000	10	13.4	8.4	50	1.8	70	
37001100	11	16.1	11.0	50	2.0	80	
37001400	14	18.5	12.5	50	3.1	95	
37001600	16	21.5	16.0	50	3.0	100	
37002000	20	25.3	19.2	50	4.1	130	
37002300	23	30.8	23.4	50	5.9	150	
37002900	29	35.5	27.3	25	3.6	160	
37003700	37	41.4	31.0	25	4.8	205	
37004500	45	54.0	42.7	25	5.6	190	
37007000	70	79.8	67.5	10	3.6	375	
37010000	100	102.5	87.5	10	5.3	500	
37001002	10	13.4	8.4	10	0.4	70	black
37001402	14	18.5	12.5	10	0.6	95	
37002002	20	25.3	19.2	10	0.8	130	
37002302	23	30.8	23.4	10	1.2	155	
37003702	37	41.4	31.0	10	1.9	205	
37004502	45	54.0	42.7	10	2.2	190	
37001003	10	13.4	8.4	5	0.2	70	black
37001403	14	18.5	12.5	5	0.3	95	
37002003	20	25.3	19.2	5	0.4	130	
37002303	23	30.8	23.4	5	0.6	155	
37003703	37	41.4	31.0	5	1.0	205	
37004503	45	54.0	42.7	5	1.1	190	

Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

Co-flex PP



- Resealable, slit corrugated conduit
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites
- Material: PP
- Very light compressive and medium impact strength
- Temperature range from -40 °C to +105 °C
- For accessories, see pages 125-126

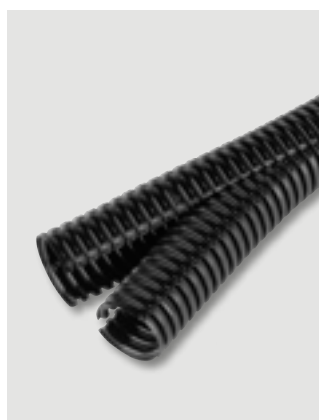


EN IEC 61386-23

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
38402010	20	25.3	19.2	50	4.1	130	white

Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

Co-flex PA



- Resealable, slit corrugated conduit
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites
- Material: PA6
- Very light compressive and light impact strength
- Temperature range from -40°C to +120 °C
- For accessories, see pages 125-126



EN IEC 61386-23

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
41000600	6	10.0	6.3	50	1.2	45	black
41001000	10	13.5	8.8	50	1.8	55	
41001100	11	16.1	11.0	50	2.4	75	
41001400	14	18.7	13.2	50	3.0	75	
41001600	16	21.5	16.0	50	3.7	85	
41002000	20	25.7	20.2	50	4.7	105	
41002300	23	31.3	23.9	50	5.9	125	
41002900	29	35.5	27.3	25	4.4	180	
41003700	37	43.2	32.5	25	4.8	170	
41004500	45	54.2	43.1	25	6.6	170	
41007000	70	79.8	67.0	10	4.4	300	
41010000	100	102.5	87.5	10	7.0	400	

Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

Co-flex PP-UV




UV


Under-ground


Void


Screed


Concrete


Exposed


Concealed


Asphalt


H0


LOW SMOKE


Flame-retardant

- Resealable, slit corrugated conduit
 - Retrofit protection of cables and wires
 - Protection against damage from marten and rodent bites
 - UV-resistant for up to 20 years
- Material: mod. PP
 - Very light compressive and medium impact strength
 - Temperature range from -40°C to +105 °C
 - For accessories, see pages 125-126



EN IEC 61386-23

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius* ≥ [mm]	Colour
38400600	6	10.0	6.3	50	1.1	40	black
38401000	10	13.4	8.4	50	1.8	70	
38401100	11	16.1	11.0	50	1.6	80	
38401400	14	18.5	12.5	50	3.1	95	
38401600	16	21.5	16.0	50	3.0	100	
38402000	20	25.3	19.2	50	4.1	130	
38402300	23	30.8	23.4	50	5.9	155	
38402900	29	35.5	27.3	25	3.0	160	
38403700	37	41.4	31.0	25	4.8	205	
38404500	45	54.0	42.7	25	5.6	190	
38407000	70	79.8	67.5	10	3.6	375	
38410000	100	102.5	87.5	10	5.3	500	
38401002	10	13.4	8.4	10	0.4	70	black
38401402	14	18.5	12.5	10	0.6	95	
38402002	20	25.3	19.2	10	0.8	130	
38402302	23	30.8	23.4	10	1.2	155	
38403702	37	41.4	31.0	10	1.9	205	
38404502	45	54.0	42.7	10	2.2	190	

Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

Resealable corrugated conduit accessories

Insertion tool with handle



- To easily insert cables and wires
- For slit Co-flex corrugated conduits
- Suitable for cables/wires up to 10 mm
- Material: PA6

Cat. no.	For conduits Ø [mm]	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49090003	7.5-34	90.0	30.0	60.0	100	1.1	black

COS – fixing clamp



- Fixing clamp with integrated ledge
- With fixing loops for cable ties
- Material: PA66
- For slit Co-flex corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Bore hole Ø [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49120006	6	18.0	15.0	17.5	M3	100	0.3	black
49120100	10	21.0	18.5	21.0	M3	100	0.4	
49120102	10*	23.0	18.5	21.0	M5	100	0.4	
49120110	11	23.0	21.0	22.5	M3	100	0.4	
49120140	14	26.0	24.0	25.5	M3	100	0.5	
49120142	14*	28.0	24.0	25.5	M5	100	0.5	
49120160	16	33.0	30.0	33.0	M5	100	0.8	
49120162	16*	35.0	30.0	33.0	M6	100	0.9	
49120200	20	35.0	35.0	36.0	M5	50	0.5	
49120202	20*	35.0	35.0	36.0	M6	50	0.5	
49120230	23	44.0	42.0	43.5	M5	50	0.6	
49120232	23*	44.0	42.0	43.5	M6	50	0.6	
49120290	29	49.0	48.0	48.5	M5	50	0.8	
49120292	29*	51.0	48.0	48.5	M6	50	0.8	
49120370	37	57.0	55.0	56.5	M6	20	0.4	
49120450	45	68.0	67.0	68.0	M6	20	0.6	
49120700	70	101.0	100.0	101.0	M6	10	0.6	

* = Please observe bore hole size

COV



- Two-piece threaded connector and locknut
- Material: PA6
- Also suited for retrofit installation
- For slit Co-flex corrugated conduits

Cat. no.	Type	Thread Pg.	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49110100	10	9	50	30	23	100	0.7	black
49110140	14	13.5	68	40	30	100	1.2	
49110200	20	21	83	47	36	50	0.8	
49110230	23	29	115	60	45	50	1.5	
49110370	37	29	130	50	47	25	0.8	

Cofix threaded connector



- Two-piece threaded connector
- Material: PA6
- Also suited for retrofit installation
- For slit Co-flex corrugated conduits

Cat. no.	Type	Thread M. x 1.5	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49110102	10	16	45.0	34.0	10.0	100	0.5	black
49110142	14	20	62.0	41.0	14.0	100	0.9	
49110202	20	25	74.0	43.0	28.0	50	0.6	
49110232	23	32	92.0	51.0	33.0	50	1.0	
49110372	37	40	109.8	59.0	45.0	25	1.2	
49110452	45	50	143.0	68.0	60.0	25	1.4	

Cofix locknut



- Two-piece locknut
- Material: PA6
- Also suited for retrofit installation
- For Co-flex threaded connector

Cat. no.	Type	Thread M. x 1.5	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49112101	10	16	45.0	14.0	8.0	100	0.1	black
49112141	14	20	61.0	26.0	8.0	100	0.2	
49112201	20	25	74.0	23.0	9.0	50	0.2	
49112231	23	32	92.0	29.0	12.0	50	0.3	
49112371	37	40	111.0	35.0	15.0	25	0.3	
49112451	45	50	144.0	46.0	15.0	25	0.5	

Resealable oval corrugated conduits

PV-C00R



UV



Under-ground



Void



Screed



Concrete



Exposed



Concealed



Asphalt



Halogen-free



Low-smoke



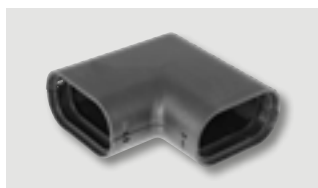
Flame-retardant

- Resealable, slit oval conduit
- Resealable
- UV-resistant for up to 20 years
- Protection of PV supply lines
- Material: mod. PP
- Very light compressive and medium impact strength
- Temperature range from -40°C to +105 °C
- For accessories, see page 136

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Colour
38448000	40 x 80	51.5 x 95.0	40.0 x 80.0	20	8.3	black

Resealable oval corrugated conduit accessories

PV-COOR 90° angle



- Two-piece 90° angle
- UV-resistant for up to 20 years
- Material: mod. PP
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49140801	40 x 80	151.0	151.0	58.0	1	0.1	black

PV-COOR T-distributor



- Two-piece T branch
- UV-resistant for up to 20 years
- Material: mod. PP
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49140802	40 x 80	151.0	200.0	58.0	1	0.1	black

PV-COOR end cap



- Two-piece end cap
- UV-resistant for up to 20 years
- Material: mod. PP
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Length [mm]	Width [mm]	Height [mm]	Packing unit [pcs.]	Packing unit weight [kg]	Colour
49140803	40 x 80	102.0	35.0	58.0	1	0.03	black



Technical appendix

- Use of conduits
- Circuit integrity
- Chemical characteristics
- Physical characteristics acc. to EN 61386-1 and DIN VDE 0100-520
- Information on fire performance

Use of electrical conduits

Electrical conduits must comply with the requirements of EN 61386-1. These standards determine the classifications, identification and tests.

The five-digit code classifies conduits and accessories according to compressive strength, impact strength and minimum and maximum operating temperatures and bends during transport, storage and use.

The **classification code "33532"** stands for: Conduit system with **medium** compressive strength (3), **medium** impact strength (3), minimum operating temperature of **-45 °C** (5), maximum operating temperature of **+105 °C** (3) and **pliable** bending behaviour (2).

First digit		Second digit		Third digit		Fourth digit		Fifth digit	
Compressive strength		Impact strength		Minimum operating temperature		Maximum operating temperature		Bending behaviour	
1	very light (125 N)	1	very light (0.5 kg/100 mm)	1	+ 5 °C	1	+ 60 °C	1	rigid
2	light (320 N)	2	light (1.0 kg/100 mm)	2	- 5 °C	2	+ 90 °C	2	pliable
3	medium (750 N)	3	medium (2.0 kg/100 mm)	3	- 15 °C	3	+ 105 °C	3	pliable, resilient
4	heavy (1250 N)	4	heavy (2.0 kg/300 mm)	4	- 25 °C	4	+ 120 °C	4	flexible
5	very heavy (4000 N)	5	very heavy (6.8 kg/300 mm)	5	- 45 °C	5	+ 150 °C	5	
						6	+ 250 °C		
						7	+ 400 °C		

3 3 5 3 2

Excerpt from DIN VDE 0100-520

Not every conduit is suited for all installations. DIN VDE 0100-520 describes the basic requirements for the selection and use of conduits. The description of installation locations and the minimum requirements for compressive strength in the table to the left comply with this standard.

More content:

- Pliable, resilient conduits with these characteristics are not suited for installations in concrete.
- Halogen-free installations must fulfil the requirements of EN 50642.
- Outdoor installations: The conduits require UV-stabilisation.

Installation location		Compressive strength	Impact strength	Min. operating temp.	Max. operating temp.
Outdoor installation	Exposed installation	3	3	2	1
	Underground installation				
Installation in buildings	Exposed installation	2	2	2	1
	Underfloor installation (in screed)	2	3	2	1
	Installed in concrete	3	3	2	1
	Installed in cavity wall/wood (flammable materials)	2	2	2	1
	Installed in plaster				
	Installed in building voids				
	Installed in suspended ceilings				
	Ceiling installation*	4	3	3	1

* Only applies to mounting spans greater than 0.80 m; otherwise the requirements for installations in suspended ceilings apply

Note

Practical experience shows that the minimum requirements for the installation location "screed" often do not meet mechanical stress requirements; therefore, we recommend compressive strength "3".

Circuit integrity

Circuit integrity is a major concern to cable/wire manufacturers, but also to manufacturers of cable trays, fixing clamps, and to us as a manufacturer of electrical conduits.

FRÄNKISCHE usually provides manufacturers of cables and wires with samples of the desired products upon request. They obtain circuit integrity approval by an accredited certification body for the construction industry in the form of a general building authority testing certificate. General building authority testing certificates from different manufacturers are available to us.

Contact

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Dätwyler Cables GmbH		E30	E60	E90	E30	E60	E90
Mr Peter Pardeyke Auf der Roos 4-12 65795 Hattersheim Phone: +49 6190 88 80-23 Fax: +49 6190 88 80-20	Staro Steck-ES	●	●		●		
	Staro Gewinde-ES	●	●		●		
	Staro Steck-ES-V	●	●		●		
	Staro Gewinde-ES-V	●	●		●		
	FPKu-EM-F-H0 / LS0H	●	●	●	●	●	●

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Prysmian Kabel und Systeme GmbH		E30	E60	E90	E30	E60	E90
Herr Eduard Herold Austraße 99 96465 Neustadt bei Coburg Tel.: 09568 895-1862	Steel conduit varnished black/white	●	●	●			

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Kabelwerk Eupen AG		E30	E60	E90	E30	E60	E90
Mr Marko Ahn Karl-Kuck-Straße 3 52078 Aachen Phone: +49 241 9 28 31-340	Staro Steck-ES	●		●	●		●
	Staro Gewinde-ES	●		●	●		●
	Staro Steck-ES-V	●		●	●		●
	Staro Gewinde-ES-V	●		●	●		●
	FPKu-EM-F-H0 / LS0H	●		●	●		●

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Leoni Studer AG		E30	E60	E90	E30	E60	E90
Mr Christian Tausch Herrenmattstrasse 20 4658 Däniken, Switzerland Phone: +41 172 639 25 25	Staro Steck-ES	●	●	●	●	●	●
	Staro Gewinde-ES	●	●	●	●	●	●
	Staro Steck-ES-V	●	●	●	●	●	●
	Staro Gewinde-ES-V	●	●	●	●	●	●
	FPKu-EM-F-H0 / LS0H	●	●	●	●	●	●

Chemical characteristics

Fluid	Percentage	PVC-U	PE-HD*	PP*	PPE
Medium	Concentration	DIN 8061	DIN 8075	DIN 8078	FPKu-EM-F-H0
		Supplement 1	Supplement 1	Supplement 1	FPKu-EM-F-LS0H
Hydrochloric acid emissions	any	+	+	+	o
Sulphuric acid emissions	any	+	+	+	o
Liquid ammonia	TR	+	+	+	+
Gaseous ammonia	TR	+	+	+	+
Gasoline	H	+	+	o	o
Benzene	TR	-	o	o	
Gaseous, dry chlorine	TR	o	o	-	+
Diesel fuel	H	+	+	+	o
Aqueous fertiliser salt	saturated	+	+	+	
Photographic developer	H	+	+	+	+
Vinegar (wine vinegar)	H	+	+	+	+
Anti-freeze	H	+	+	+	
Fruit juices	H	+	+	+	
Aqueous uric acid	33 %	+	+	+	+
Fuel oil	H	+	+	+	
Sea water	H	+	+	+	+
Methanol	TR	+	+	+	o
Milk	H	+	+	+	o
Mineral oil	H	+	+	+	o
Vegetable and animal oils	H	+	+	+	o
Paraffin	TR	+	+	+	
Gaseous propane	TR	+	+	+	
Nitric acid	30 %	+	o	o	+
Hydrochloric acid	30 %	+	+	+	+
Sulphuric acid	40 %	+	+	+	+
Turpentine	TR	+	o	-	
Detergent	VL	+	+	+	o

Note: The information provided above applies to 20 °C. The concentration (%) and the temperature must always be indicated additionally for special applications.

VL = aqueous solution, rate ≥ 10 %
 GL = saturated solution, aqueous
 TR = minimum requirement:
 technically pure

H = standard composition
 ++ = resistant
 o = limitedly resistant
 - = non-resistant

* polyolefins

Please note

The above information is provided to the best of our current knowledge and experience.

We reserve the right to make technical changes or improvements to our products.

The customer is responsible for conducting adequate incoming inspections, tests and other examinations.

The customer is also solely responsible for observing industrial property rights, laws and regulations.

Physical characteristics acc. to DIN EN 61386-1 and DIN VDE 0100-520

Application and identification according to physical characteristics

Field of application	Product	Material	Colour	Possible forms of installation	Code
Light duty Conduits for light mechanical stress; minimum compressive strength 320 N/5 cm	isofix-EL-F	unplasticized polyvinyl chloride	grey	● ● ●	22211
	FBY-EL-F co2ntrol	polyethylene	black	● ● ●	23322
	FBY-EL-F Highspeed	polyethylene	black	● ● ●	23322
	FFKu-EL-F	unplasticized polyvinyl chloride	beige	● ● ● ● ● ●	22212
	FFKu-EL-F-LS0H	polypropylene	black	● ● ●	23232
	FFKu-ReMo click	polyethylene	signal blue	● ● ●	23422
	FPKu-EL-F-H0	polyphenylene ether	grey	● ● ● ● ● ●	33521
Medium duty Conduits for medium mechanical stress; minimum compressive strength 750 N/5 cm	FPKu-EM-F	unplasticized polyvinyl chloride	grey	● ● ● ● ● ●	33411
	FPKu-EM-F-UV	modified polyvinyl chloride	white	● ● ● ● ● ●	33411
	FPKu-EM-F-LS0H	polyphenylene ether	grey	● ● ● ● ● ●	33541
	FPKu-EM-F-H0	polyphenylene ether	grey	● ● ● ● ● ●	33521
	FFKuS-EM-F Highspeed	unplasticized polyvinyl chloride/ plasticized polyvinyl chloride	grey	● ● ● ● ● ●	33412
	FFKu-EM-F Highspeed	unplasticized polyvinyl chloride	grey	● ● ● ● ● ●	33412
	FFKu-EM-F-UV Highspeed	modified polyvinyl chloride	black	● ● ● ● ● ●	33412
	FFKuS-EM-F-105 co2ntrol	polyethylene	magenta	● ● ● ● ● ●	33532
	FFKuS-EM-F-LS0H	polypropylene	black	● ● ● ● ● ●	33532
	FFKu-EM-F-LS0H	polypropylene	black	● ● ● ● ● ●	33232
	FFKu-Smart net	polyethylene	blue-purple	● ● ● ● ● ●	33522
	FFKu-Fibre net M	polyethylene	white	● ● ● ● ● ●	33222
Heavy duty Conduits for heavy mechanical stress; minimum compressive strength 1250 N/5 cm	FPKu-ES-F-UV	modified polyvinyl chloride	grey/black	● ● ● ● ● ●	43411
	FPKu-ES-F	unplasticized polyvinyl chloride	grey	● ● ● ● ● ●	43211
	Staro Steck-ES	steel	black/varnished	● ● ● ● ● ●	44561
	Staro Steck-ES-V	steel	hot-galvanised	● ● ● ● ● ●	44571
	Alu Steck-ES	aluminium	silver	● ● ● ● ● ●	44561
	FFKuS-ES-F-UV Highspeed	modified polyvinyl chloride	black	● ● ● ● ● ●	43412
	FFS-ES	steel	silver	● ● ● ● ● ●	44562
Very heavy duty Conduits for very heavy mechanical stress; minimum compressive strength 4000 N/5 cm	FFSK-ES-UV	steel/modified polyvinylchloride	black	● ● ● ● ● ●	44412
	Staro Gewinde-ES	steel	black/varnished	● ● ● ● ● ●	55561
	Staro Gewinde-ES-V	steel	hot-galvanised	● ● ● ● ● ●	55571
	Alu Gewinde-ES	aluminium	silver	● ● ● ● ● ●	55561
	V2 Steck-ES co2ntrol	V2A	silver	● ● ● ● ● ●	55571
	V4 Steck-ES co2ntrol	V4A	silver	● ● ● ● ● ●	55571
	Staro Steck-ES-V	steel	hot-galvanised	● ● ● ● ● ●	44571
H0 Conduits made of halogen-free insulating material	FPKu-EM-F-LS0H	polyphenylene ether	grey	● ● ● ● ● ●	33541
	FPKu-EM-F-H0	polyphenylene ether	grey	● ● ● ● ● ●	33521
	FFKu-EL-F-LS0H	polypropylene	black	● ● ● ● ● ●	23232
	FFKuS-EM-F-LS0H	polypropylene	black	● ● ● ● ● ●	33532
	FFKu-EM-F-LS0H	polypropylene	black	● ● ● ● ● ●	33232
	FPKu-EL-F-H0	polyphenylene ether	grey	● ● ● ● ● ●	33521
UV UV-resistant conduits	FPKu-ES-F-UV	modified polyvinyl chloride	grey/black	● ● ● ● ● ●	43411
	FPKu-EM-F-UV	modified polyvinyl chloride	white	● ● ● ● ● ●	33411
	FFKuS-ES-F-UV Highspeed	modified polyvinyl chloride	black	● ● ● ● ● ●	43412
	FFKu-EM-F-UV Highspeed	modified polyvinyl chloride	black	● ● ● ● ● ●	33412
	FFSK-ES-UV	steel/modified polyvinylchloride	black	● ● ● ● ● ●	44412
	Staro Steck-ES-V	steel	hot-galvanised	● ● ● ● ● ●	44571
	Staro Gewinde-ES-V	steel	hot-galvanised	● ● ● ● ● ●	55571
	V2 Steck-ES co2ntrol	V2A	silver	● ● ● ● ● ●	55571
	V4 Steck-ES co2ntrol	V4A	silver	● ● ● ● ● ●	55571
	Alu Steck-ES	aluminium	silver	● ● ● ● ● ●	44561
	Alu Gewinde-ES	aluminium	silver	● ● ● ● ● ●	55561
				Exposed installations Concealed installations (in/under plaster) Installations on wood Underground installations Installations in concrete Engineering installations Underfloor installations (bitumen, hot asphalt) Under screed Prefabricated construction Installations outdoors	

Information on fire performance

Halogen-free low smoke conduits manufactured by FRÄNKISCHE have clear advantages over conventional conduits for electrical installations.

Low smoke gas acc. to EN 61034-2	➤ Better visibility on escape routes and during rescue operations
Reduces toxic and corrosive gases in case of fire to a safe level. Development of hydrochloric acid is excluded.	➤ Increased protection of "life and limb" as well as buildings, machinery or material assets
Non-flame propagating, i.e., self-extinguishing	➤ Conduits do not contribute to flame propagation
High temperature resistance	➤ Guarantees high operational reliability
High impact strength, even at very low temperatures	➤ Guarantees high operational reliability
Good electrical insulation characteristics	➤ Guarantees high operational reliability
No ecological and disposal problems during manufacturing and use	➤ Environmentally compatible
Halogen-free according to DIN EN IEC 63355	➤ Standard-compliant

Fire load value of our products in kWh/m

Conduit name	7	10	12	14	16	20	25	32	40	50	63
FBY-EL-F co2ntrol	–	–	–	–	0.545	0.671	0.937	1.281	1.841	2.335	3.191
FBY-EL-F Highspeed	–	–	–	–	0.583	0.696	0.966	1.288	1.872	2.306	3.244
FFKu-EL-F	–	–	–	–	0.182	0.237	0.292	0.457	0.604	0.866	1.076
FFKuS-EM-F-105 co2ntrol	–	–	–	–	1.150	1.418	2.014	2.722	3.577	4.440	5.614
FFKu-EM-F Highspeed	–	–	–	–	0.251	0.33	0.491	0.670	0.937	1.200	1.702
FFKuS-EM-F Highspeed	–	–	–	–	0.391	0.594	0.748	0.987	1.260	1.617	2.219
FFKu-EM-F-UV Highspeed	–	–	–	–	0.259	0.363	0.526	0.682	0.924	1.199	1.733
FFKuS-ES-F-UV Highspeed	–	–	–	–	0.523	0.798	0.952	1.313	1.785	2.310	3.024
FFKu-EL-F-LS0H	–	–	–	–	0.430	0.672	0.874	1.155	1.540	1.964	2.380
FFKuS-EM-F-LS0H	–	–	–	–	0.981	1.358	1.869	2.503	3.196	4.286	5.374
FFKu-EM-F-LS0H	–	–	–	–	0.739	1.062	1.411	1.949	2.822	3.548	4.234
isofix-EL-F	–	–	–	–	0.319	0.440	0.594	0.830	1.176	1.601	2.650
FPKu-EM-F	–	–	–	–	0.468	0.594	0.836	1.103	1.549	2.090	2.973
FPKu-ES-F	–	–	–	–	0.578	0.743	1.001	1.365	1.838	2.546	3.536
FPKu-ES-F-UV	–	–	–	–	0.578	0.743	1.001	1.365	1.838	2.546	3.536
FPKu-EM-F-UV	–	–	–	–	0.468	0.605	0.858	1.103	–	–	–
FPKu-EM-F-H0	–	–	–	–	0.789	1.136	1.507	1.992	2.704	3.985	5.142
FPKu-EL-F-H0	–	–	–	–	0.661	0.893	1.148	1.638	2.103	3.431	4.106
FPKu-EM-F-LS0H	–	–	–	–	0.722	1.006	1.345	1.796	2.443	3.707	4.893
FFKu-ReMo click	–	–	–	–	–	–	1.208	–	–	–	–
FFKu-Smart net	–	–	–	–	–	–	1.535	–	–	–	–
FFKu-Fibre net M	0.369	0.753	0.938	1.080	–	–	–	–	–	–	–

The values indicated in the table were calculated on the basis of heating values according to DIN 18230-3 and the information provided by the material supplier. We do not assume any responsibility for the accuracy of the information provided!

FIPSYSTEMS – industrial cable protection

Various demands are placed on cable protection conduits depending on the respective application: in industrial applications as well. Cable protection protects against mechanical and chemical influences, moisture, heat and cold, abrasion, impact, and noise – a sheer endless number of applications not least including robotics, telecommunications, and electronics in general.

Please see our separate catalogue for our extensive range of products for industrial cable protection.



Service

Technical consulting

Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time. If you generously install a system of conduits today, you can easily expand your electrical installations later. You save lots of time, money and effort!

We will be happy to help you with your technical questions. Prompt information can be obtained from our technical consultants at **+49 9525 88-8123**.

Advertising

Our catalogue portfolio features a number of interesting brochures such as our tried-and-tested Conduit guide for experts, or Planner guidebook for conduits.

We always have our latest documents at hand in order to ensure prompt delivery.

We will be happy to help you with creating catalogues, inserts, brochures, flyers, posters, ad banners, etc. and to provide you with printable images.

Please contact our marketing department: **marketing@fraenkische.de**.

Visit our websites

www.fraenkische.com | www.umweltrohr.de | www.leerrohrberater.de

Initiatives – Together for quality, reliability and service

ELEKTRO+

ZVEI:
Die Elektroindustrie

HEA

Pictogram explanation

	Outdoor installation		Underground installation		Installation in cavities
	Underfloor installation (in screed)		Installation in concrete		Concealed installation
	Exposed installation		Installation in hot asphalt		Halogen-free No formation of corrosive gases in case of fire.
	Low smoke Thanks to very little development of smoke gas in case of fire, escape routes can be found more quickly.		Non-flame propagating		

	VDE	Verband der Elektrotechnik, Elektronik und Informationstechnik		–	Gas-tightness and water pressure-tightness
	CE	European conformity (Conformité Européenne)		–	Radon-tightness
	TAB	Technische Anschlussbedingungen (technical connection requirements)		–	Lifestyle Innovation Award
	DBI	DBI approval mark by DBI Gastechnologisches Institut gGmbH Freiberg		EPD	Environmental Product Declarations

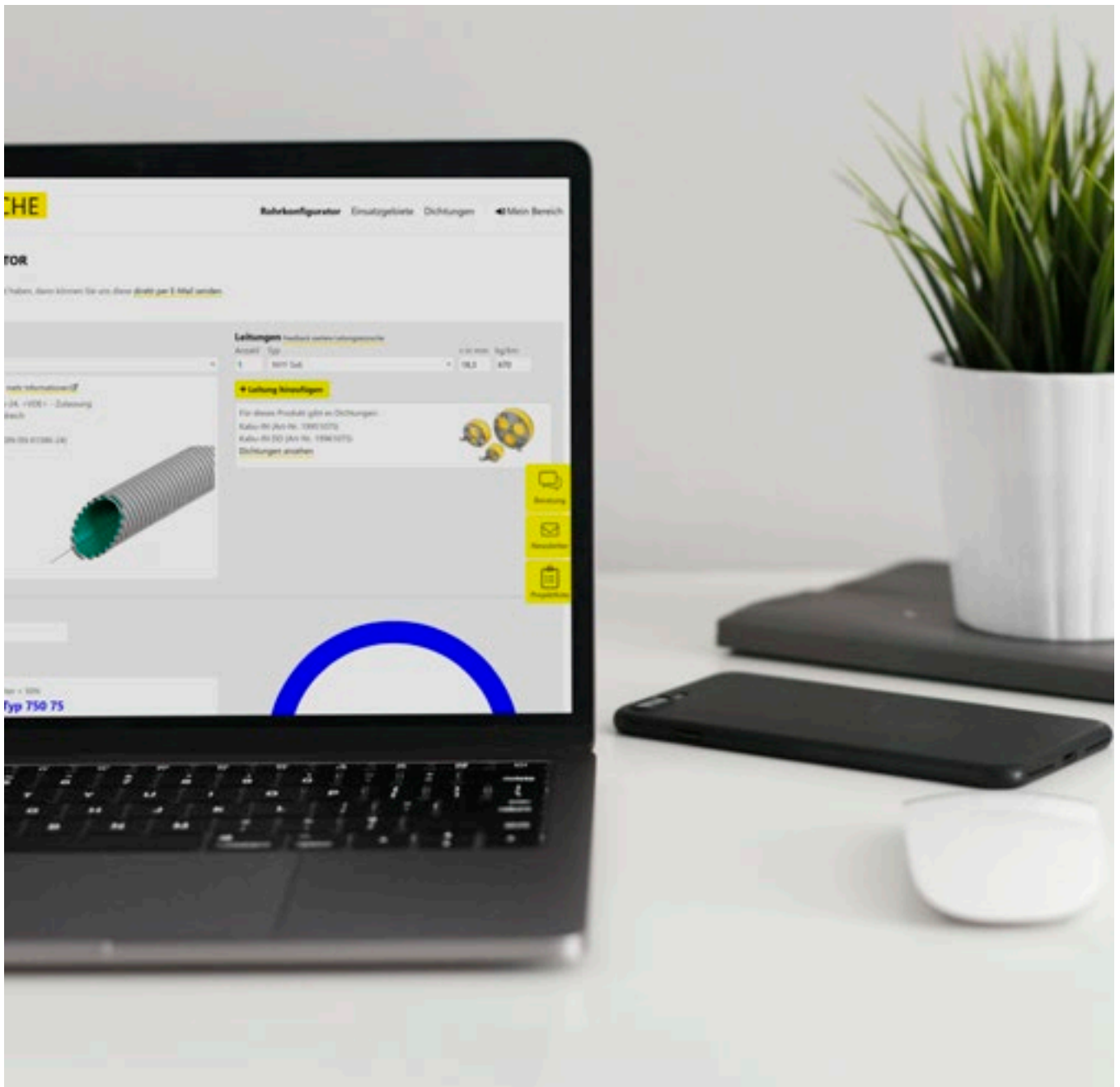
Conduit configuration software

Easy, quick and standard-compliant calculation of the conduit layout.

FRÄNKISCHE's conduit configurator allows you to calculate the correct conduit fill in a matter of seconds. Our tool does not require you to register and is completely free of charge. The intuitive application determines the standard-compliant occupancy of conduits pursuant to DIN 18015 and the VDE recommendation and indicates when the occupancy level is exceeded.

Simply select the desired electrical conduit, enter the required number and type of cables, wires or insulated conductors and the conduit configurator will determine the occupancy level and whether you exceed the permissible conduit fill. If you do not know the type, you can enter the desired outside diameter. The programme also gives recommendations as to when additional conduits should be planned. The tool also provides a clearly represented table for the correct sealing of cable conduits.

Are you looking for the right conduits for use outdoors, under plaster, in concrete or underground? Designed to be flexible and user-friendly, the right conduit can also be selected based on the application. The pipe configurator suggests appropriate conduits for each application, which you can then use to calculate the standard-compliant conduit fill. Simple, intuitive and fast.



Notes

[illegible]

[illegible]



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FRÄNKISCHE

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