

FRÄNKISCHE

FRÄNKISCHE Electrical Systems

Main Catalogue



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DRAINAGE SYSTEMS
ELECTRICAL SYSTEMS
BUILDING TECHNOLOGY
INDUSTRIAL PRODUCTS

Electrical installation 2020 – the future starts now!





FFKu-ReMo click, FFKuS-POF net and FFKu-Smart net

Seizing tomorrow's opportunities today:

- smart home
- smart metering
- smart grid
- fast, simple infrastructure expansion
- AAL (ambient assisted living)

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The revolution in electrical installation ...



FFKu-ReMo click

It's as easy as that:

- installation to exterior facades → fast, simple infrastructure expansion during installation of building insulation
- no chase cutting required for renovation/remodelling/modernisation
- patented clamp geometry ensures quick click installation onto ReMo click rail
- ReMo click rail can be easily and quickly glued to all surfaces
- optimised for use in lightweight construction
- crush-resistant also on unfinished floors

Corrugated Plastic Conduits



VDE 0605
DIN EN 61386-22
Classification: 23422
Minimum compressive strength:
320 N/5cm



FFKu-ReMo click

23422

Light duty Highspeed plastic conduit for remodelling, renovation and modernisation. Made of polyolefin with low friction inner surface and patented clamp geometry for a reliable clamp connection to the ReMo click rail. In signal blue (RAL 5005), non-flame propagating and with an increased compressive strength of 320 N/5cm.

Application:

FFKu-ReMo click has been especially designed for installation on exterior facades. This is where a new infrastructure for electrical installation and communication networks can be realised relatively easily. The opportunity arises in particular when the building owner implements energy-saving measures and installs insulation to facades. FFKu-ReMo click can be accommodated between the outside wall and the new thermal insulation composite system. ReMo click rails are simply glued to the surface, thanks to the pre-installed adhesive strips.

Physical characteristics:

- material: polyolefin
- increased compressive strength 320 N/5cm
- impact strength: medium
- temperature resistance range: -25 °C to +90 °C
- pliable
- non-flame propagating
- corrosion-resistant

Type	Cat. no.	25
Outside Ø* mm		25.0
Inside Ø mm		18.0
Bend radius approx. mm		110
In coils of m		50
Coil weight kg		4.3
Pallet content m		1,200
Colour: signal blue	266.10. ...	..025

*Production-related dimensional tolerances acc. to DIN EN 60423

Accessories



ReMo click rail (RAL 9005, black) made of PVC for FFKu-ReMo click
with pre-installed high strength adhesive strip, connectable

ReMo click rail	Cat. no.	
Packaging/quantity		50
Colour: black	266.70. ...	..001



Airtight ReMo UP socket (RAL 9005, black) made of PVC for FFKu-ReMo click
with rear insertion

ReMo UP socket	Cat. no.	25
Packaging/quantity		25
Colour: black	266.80. ...	..025



High tensile strength-resistant plastic push-fit coupling (opaque) for FFKu-ReMo click

SMSKu-EZF	Cat. no.	25
Packaging/quantity		50
Colour: opaque	259.50. ...	..025

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

All dimensions without tolerances are for reference only.

2 in 1: energy supply and data transmission – all in one conduit



FFKuS-POF net

No need to worry about the future ...

- Highspeed conduit with integrated POF
- data transmission and energy supply in one single system
- basis for a future data network in the building
- all options of smart home (home automation, room control, smart metering, AAL etc.)
- meets all requirements of a FITH network
- quick installation of the POF, thanks to convenient plug-in connection
- no screening of the data cable necessary
- plug and play



Corrugated Plastic Conduits

NEW



VDE 0605
DIN EN 61386-22
Classification: 33412
Minimum compressive strength:
750 N/5cm



FFKuS-POF net

33412

Medium duty Highspeed PVC conduit with an inner surface of ultra low friction, plastic sheathing and integrated POF cable. In blue lilac (RAL 4005), non-flame propagating.

Application:

With FFKuS-POF net you install your future already today. The integrated POF (polymer optical fibre) provides you with a complete data network in your building and meets all the requirements of a FiTH (fibre in the home) network. At the same time, you can install all necessary energy lines with the provided conduit. Using FFKuS-POF net therefore offers you two applications in one: data transmission and energy supply.

Physical characteristics:

- material: PVC
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant

Type	Cat. no.	25
Outside Ø* mm		25,0
Inside Ø mm		17,2
Bend radius approx. mm		160
In coils of m		100
Coil weight kg		13.0
Pallet content m		500
Colour: blue lilac	257.10. ...	..025

*Production-related dimensional tolerances acc. to DIN EN 60423

Accessories

NEW



1.00 PMMA fibre duplex with 2.2mm POF (polymer optical fibre) cable, PE sheathing, black



POF duplex 2.2 PE	Cat. no.	
Packaging unit/m		100
	257.80. ...	..102

NEW



POF connector for POF duplex 2.2

POF connector duplex 2.2	Cat. no.	
Packaging/quantity		5
	257.50. ...	..002

NEW



POF cutter for standard POF

POF cutter	Cat. no.	
Packaging/quantity		5
	257.90. ...	..001

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

All dimensions without tolerances are for reference only.

Installation acc. to DIN 18015-1



FFKu-Smart net

Keeps you always on the safe side!

- double-walled, edgeless data conduit – ideal for optical cables with glass fibres, POF, copper data lines, coaxial transmission lines according to DIN 18015-1
- ideal for smart metering, smart grid, smart home from the meter box
- easy cable jetting and insertion
- precise routing (small bend radii with high attenuation during data transmission are avoided)
- low friction
- double protection thanks to external conduit with inner wall

Corrugated Plastic Conduits



VDE 0605
 DIN EN 61386-22
 Classification: 33522
 Minimum compressive strength:
 750 N/5 cm



FFKu-Smart net

33522

Medium duty corrugated polyolefin conduit. Double-walled, edgeless and with low friction inner surface. In blue lilac (RAL 4005) and non-flame propagating.

Application:

The data conduit is double-walled, edgeless and has a low friction inner surface, which significantly facilitates insertion or feeding of wires and cables. This data conduit allows routing of the data lines for smart metering or smart home from the meter box to distribution boxes and the display or control panels.

Thanks to its medium compressive strength, the data conduit can be used in installation in concrete and in concealed installations.

Physical characteristics:

- material: polyolefin
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -45 °C to +90 °C
- pliable
- non-flame propagating
- corrosion-resistant

Type	Cat. no.	25
Outside Ø* mm		25.0
Inside Ø mm		17.0
Bend radius approx. mm		160
In coils of m		50
Coil weight kg		5.5
Pallet content m		400
Colour: blue lilac	252.30. ...	..025

*Production-related dimensional tolerances acc. to DIN EN 60423

Corrugated Plastic Conduits



Multi-media conduit

Application:

The multi-media conduit is a corrugated plastic conduit for concealed installations. Cables and plugs can be exchanged conveniently even after many years.

Delivery includes:

1.5m set: 1.5m oval conduit, 2 outlet sockets, 2 end covers

2 x 1.5m set: 2 x 1.5m oval conduits, 2 outlet sockets, 2 end covers, 1 coupling sleeve

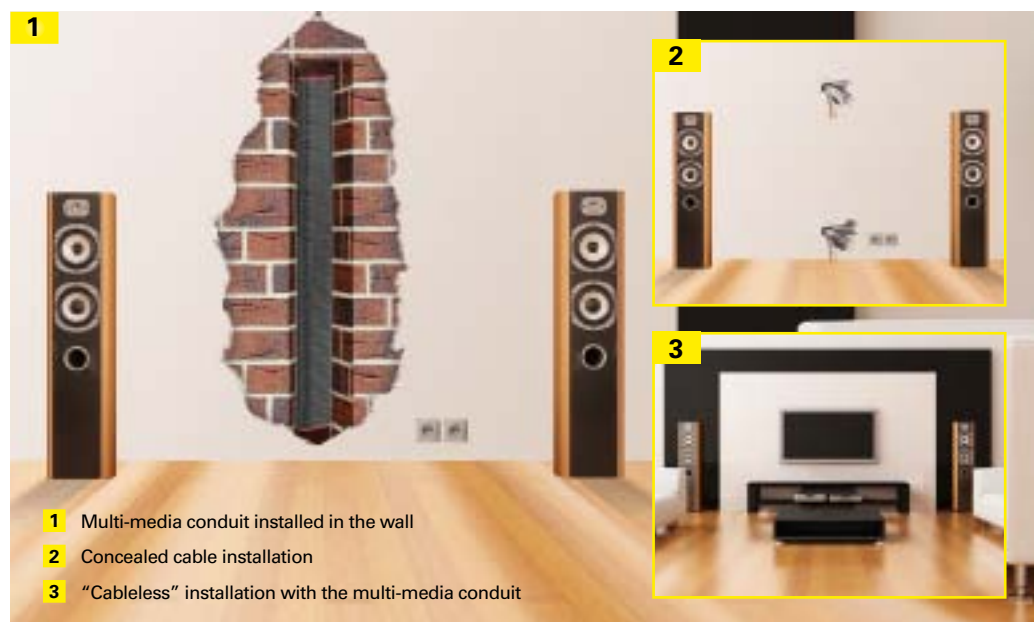
Physical characteristics:

- material: polyolefin
- temperature resistance from $-5\text{ }^{\circ}\text{C}$ to $+90\text{ }^{\circ}\text{C}$
- non-flame propagating

Type	Cat. no.	1.5	2 x 1.5
Outside \varnothing * mm		92/50	92/50
Inside \varnothing mm		82/40	82/40
Length in m		1.5	2 x 1.5
Packaging/pieces per box		1/30	1/15
Multi-media conduit	294. ...	...10.092	...11.092

*Production-related dimensional tolerances acc. to DIN EN 60423

Installation notes



- 1** Multi-media conduit installed in the wall
- 2** Concealed cable installation
- 3** "Cableless" installation with the multi-media conduit

Advantages:

- the conduit with a length of 1.50m is ideal for concealed connections of flat screen TVs
- 3m lengths are used for schools, hospitals and conference rooms
- the oval shape requires installation depths of only approx. 6cm
- drilling into the conduit is possible directly through the plaster
- delivery includes two outlet sockets and two end covers (3m set: 1 coupling)

Corrugated Plastic Conduits

FBY-EL-F Highspeed

23322



Light duty corrugated polyolefin conduit for concealed installations and installation in cavity walls, with low friction inner surface, non-flame propagating. Available in black, white, light-grey, blue and green.

Application:

FBY-EL-F Highspeed can be used for all concealed installations – and thanks to its flame-retardant characteristics also for installation in cavity walls. Its low friction inner surface allows easy insertion of cables and wires over long distances.

Physical characteristics:

- material: polyolefin
- compressive strength: light
- impact strength: medium
- temperature resistance range: -15 °C to +90 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-22
Classification: 23322
Minimum compressive strength:
320 N/5cm



Type	Cat. no.	16	20**	25**	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.9	14.9	19.3	24.9	31.5	39.4	50.3
In coils of m		100	100	50	50	25	25	25
Coil weight kg		4.1	4.9	3.4	4.8	3.1	3.7	5.8
Pallet content m		2,800	2,000	1,200	800	500	400	150
Bend radius ≥ mm		60	80	100	130	170	220	250
Colour: black	262.10. ...	..016	..020	..025	..032	..040	..050	..063
Colour: white	262.20. ...	-	..020	..025	..032	-	-	-
Colour: light-grey	262.30. ...	-	..020	..025	..032	-	-	-
Colour: blue	262.40. ...	-	..020	..025	..032	-	-	-
Colour: green	262.50. ...	-	..020	..025	..032	-	-	-

RMKu-E coupling	259.30. ...	..016	..020	..025	..032	..040	..050	-
SMSKu-EZF coupling	259.50. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063
FWVS-E plug	259.75. ...	..016	..020	..025	..032	..040	-	-

*Production-related dimensional tolerances acc. to DIN EN 60423

**with ultra low friction inner surface

FFKu-EL-F

22412



Light duty corrugated PVC conduit, non-flame propagating, pliable. Available in beige and light-grey.

Application:

FFKu-EL-F is suited for light, concealed installations and installation in cavity walls.

Physical characteristics:

- material: PVC-U
- compressive strength: light
- impact strength: light
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-22
Classification: 22412
Minimum compressive strength:
320 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		11.0	14.5	18.8	24.5	31.7	40.3	50.7
In coils of m		100	100	50	50	25	25	25
Coil weight kg		3.3	4.7	2.7	4.4	2.9	4.2	5.3
Pallet content m		2,400	2,000	1,000	800	400	400	150
Bend radius ≥ mm		60	80	100	130	170	220	250
Colour: beige	250.10. ...	..016	..020	..025	..032	..040	..050	..063
Colour: light-grey	250.05. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

All dimensions without tolerances are for reference only.

Corrugated Plastic Conduits

FFKu-EM-F Highspeed

33412



A medium duty Highspeed PVC corrugated conduit with low friction inner surface. Provides exceptional cold impact strength, grey, RAL 7037.

Application:

FFKu-EM-F Highspeed is ideal for installation in concrete and installations in cavity walls. Its excellent impact strength allows for underground installation, even in sub-zero temperatures. The low friction inner surface makes insertion of wires and cables exceptionally easy, even over long distances.

Physical characteristics:

- material: PVC-U
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605

DIN EN 61386-22

Classification: 33412

Minimum compressive strength:

750 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.9	14.2	18.6	24.3	31.3	40.0	50.5
In coils of m		50	50	50	25	25	25	25
Coil weight kg		2.4	3.3	4.8	6.2	4.2	5.4	6.7
Pallet content m		2,000	1,600	1,200	700	400	400	150
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: grey	252.05. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E coupling	259.30. ...	..016	..020	..025	..032	..040	..050	
SMSKu-EZF coupling	259.50. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

FFKu-EM-F

33412



A medium duty PVC corrugated conduit. Provides exceptional cold impact strength, light-grey, RAL 7035.

Application:

FFKu-EM-F is ideal for installation in concrete and installations in cavity walls. Its excellent impact strength allows for underground installation, even in sub-zero temperatures.

Physical characteristics:

- material: PVC-U
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605

DIN EN 61386-22

Classification: 33412

Minimum compressive strength:

750 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.9	14.2	18.6	24.3	31.3	40.0	50.5
In coils of m		100	100	50	50	25	25	25
Coil weight kg		4.7	6.6	4.4	3.1	4.2	5.4	6.7
Pallet content m		2,400	2,000	1,000	800	400	400	150
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: light-grey	252.10. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E coupling	259.30. ...	..016	..020	..025	..032	..040	..050	
SMSKu-EZF coupling	259.50. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Corrugated Plastic Conduits

FFKuS-EM-F Highspeed

33412



Medium duty PVC Highspeed conduit for installation in concrete, with low friction inner surface, plastic sheathing, non-flame propagating and with high cold impact strength. Available in light-grey, blue and green.

Application:

FFKuS-EM-F Highspeed is particularly suited for installation in concrete and cavity walls. Thanks to its heavy compressive strength and cold impact strength, the conduit can also be used in low soil temperatures. Its low friction inner surface allows easy insertion of cables and wires over long distances.

Physical characteristics:

- material: PVC-U/PVC-P
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-22
Classification: 33412



Minimum compressive strength:
750 N/5cm

Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.9	14.2	18.6	24.3	31.3	40.0	50.5
In coils of m		50	50	50	25	25	25	25
Coil weight kg		3.6	5.5	6.6	4.5	6.0	7.7	11.2
Pallet content m		2.000	1.400	1.200	700	200	150	125
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: light-grey	253.10. ...	..016	..020	..025	..032	..040	..050	..063
Colour: blue	253.40. ...	-	..020	..025	-	-	-	-
Colour: green	253.50. ...	-	..020	..025	-	-	-	-
RMKu-E coupling	259.30. ...	..016	..020	..025	..032	..040	..050	-
SMSKu-EZF coupling	259.50. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063
FWVS-E plug	259.75. ...	..016	..020	..025	..032	..040	-	-

*Production-related dimensional tolerances acc. to DIN EN 60423

FFKuS-EM-F-105 Highspeed

33532



Medium duty special plastic corrugated conduit for installation in concrete, with low friction inner surface, plastic sheathing, magenta, non-flame propagating, high temperature resistant and cold impact strength in extreme temperatures.

Application:

Thanks to its heavy compressive strength, cold impact strength and heat resistance, FFKuS-EM-F-105 Highspeed is particularly suited for installation in concrete; can also be used for underground installations. Its rigidity and low friction inner surface allow easy insertion of cables and wires over long distances.

Physical characteristics:

- material: special plastic
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -45 °C to +105 °C
- pliable
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-22
Classification: 33532



Minimum compressive strength:
750 N/5cm

Type	Cat. no.	16	20**	25**	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.4	13.6	17.9	23.4	30.0	38.8	48.8
In coils of m		50	50	50	25	25	25	25
Coil weight kg		3.6	4.7	6.4	4.3	6.6	7.6	10.9
Pallet content m		2,000	1,400	1,000	700	200	150	125
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: magenta	256.10. ...	..016	..020	..025	..032	..040	..050	..063
RMKu-E coupling	259.30. ...	..016	..020	..025	..032	..040	..050	-
SMSKu-EZF coupling	259.50. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063
FWVS-E plug	259.75. ...	..016	..020	..025	..032	..040	-	-

*Production-related dimensional tolerances acc. to DIN EN 60423

**with low friction inner surface

All dimensions without tolerances
are for reference only.

Straight Length Plastic Conduits

FPKu-EM-F

33411



Medium duty straight length PVC conduit, light-grey (RAL 7035), non-flame propagating, in straight lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-EM-F is a straight length plastic conduit for exposed installations in industrial and commercial buildings. Thanks to its medium compressive strength and high impact strength, the conduit is suited for all standard exposed installations. Its high corrosion resistance makes the conduit resistant also to aggressive substances.

Physical characteristics:

- material: PVC-U
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant

VDE 0605

DIN EN 61386-21

Classification: 33411

Minimum compressive strength:
750 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.4	17.1	21.7	28.6	36.0	46.1	58.8
In bundles of m		111	111	57	57	21	21	21
Bundle weight kg		9.5	12.3	8.9	12.0	6.3	8.4	12.2
Pallet content m		7,992	4,995	3,135	2,052	1,407	798	504
Colour: light-grey 3m	222.10. ...	..016	..020	..025	..032	..040	..050	..063

SMSKu-E coupling	222.50. ...	..016	..020	..025	..032	..040	..050	..063
SBSKu-EM elbow	222.60. ...	..016	..020	..025	..032	..040	..050	..063
Clipfix clamp	223.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

FPKu-EM-F – 2m

33411



Medium duty straight length PVC conduit, light-grey (RAL 7035), non-flame propagating, in straight lengths of 2 m, with one pre-moulded coupling.

Physical characteristics:

see above

Type	Cat. no.		20	25				
Outside Ø* mm			20.0	25.0				
Inside Ø mm			17.1	21.7				
In bundles of m			74	74				
Bundle weight kg			8.0	11.2				
Pallet content m			3,330	2,072				
Colour: light-grey 2m	222.20. ...		..020	..025				



FPKu-EM-F – 2m set

33411



Straight length plastic conduit complete packages 2m lengths incl. **clipfix** clamps

Physical characteristics:

see above

Type	Cat. no.		20	25				
In bundles of/m			74	74				
clipfix /pcs.			100	100				
Bundle weight kg			8.5	11.8				
Colour: light-grey 2m	222.21. ...		..020	..025				



All dimensions without tolerances are for reference only.

Straight Length Plastic Conduits

FPKu-ES-F

43211



Heavy duty straight length PVC conduit, light-grey (RAL 7035), non-flame propagating, with reinforced walls, in straight lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-ES-F is a straight length plastic conduit for exposed installations in industrial and commercial buildings. Its heavy compressive strength makes the conduit ideal for highest mechanical requirements in exposed installations. Its high corrosion resistance makes the conduit resistant also to aggressive substances.

Physical characteristics:

- material: PVC-U
- compressive strength: heavy
- impact strength: medium
- temperature resistance range: -5 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-21
Classification: 43211
Minimum compressive strength:
1250 N/5cm



Type	Cat. no.		20	25	32	40	50	
Outside Ø* mm			20.0	25.0	32.0	40.0	50.0	
Inside Ø mm			16.6	21.2	27.9	35.3	45.4	
In bundles of m			57	57	21	21	21	
Bundle weight kg			7.7	10.4	5.5	7.4	10.2	
Colour: light-grey	223.10. ...		..020	..025	..032	..040	..050	
SMSKu-E coupling	222.50. ...		..020	..025	..032	..040	..050	
SBSKu-ES elbow	223.60. ...		..020	..025	..032	..040	..050	
Clipfix clamp	223.70. ...		..020	..025	..032	..040	..050	

*Production-related dimensional tolerances acc. to DIN EN 60423

isofix-EL-F

22211



Light duty straight length PVC conduit, light-grey (RAL 7035), non-flame propagating, in straight lengths of 3m, with one pre-moulded coupling.

Application:

isofix-EL-F is a straight length plastic conduit for exposed installations, for low pressure and low mechanical strength requirements.

Physical characteristics:

- material: PVC-U
- compressive strength: light
- impact strength: light
- temperature resistance range: -5 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant

VDE 0605
DIN EN 61386-21
Classification: 22211
Minimum compressive strength:
320 N/5cm



Type	Cat. no.	16	20	25	32	40	50	
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	
Inside Ø mm		14.3	18.3	22.6	29.5	36.9	46.1	
In bundles of m		111	111	57	57	21	21	
Bundle weight kg		6.7	9.5	6.9	9.7	5.3	7.2	
Pallet content m		7,992	4,995	3,135	2,052	1,407	798	
Colour: light-grey	221.10. ...	..016	..020	..025	..032	..040	..050	
SMSKu-E coupling	222.50. ...	..016	..020	..025	..032	..040	..050	
SBSKu-EM elbow	222.60. ...	..016	..020	..025	..032	..040	..050	
Clipfix clamp	223.70. ...	..016	..020	..025	..032	..040	..050	

*Production-related dimensional tolerances acc. to DIN EN 60423

SBSKu-EM

Plastic push-fit elbow (RAL 7035, light-grey)
for FPKu-EM-F and isofix-EL-F

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	50	25	10	5
	222.60. ...	..016	..020	..025	..032	..040	..050	..063

SBSKu-ES

Plastic push-fit elbow (RAL 7035, light-grey)
for FPKu-ES-F

Type	Cat. no.		20	25	32	40	50	
Packaging/quantity			25	25	25	25	10	
	223.60. ...		..020	..025	..032	..040	..050	

SMSKu-E

Plastic push-fit coupling (RAL 7035, light-grey)
for isofix-EL-F, FPKu-EM-F and FPKu-ES-F

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	100	100	50	25	10	5
	222.50. ...	..016	..020	..025	..032	..040	..050	..063

SMSKu-ER

Plastic grip coupler (black) for all corrugated conduits

Type	Cat. no.		20	25				
Packaging/quantity			50	50				
	259.40. ...		..020	..025				

SMSKu-EZF

High tensile strength plastic push-fit coupling (opaque)
for all corrugated conduits

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	25	25	10	5
	259.50. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E

Plastic push-fit coupling (opaque)
for all corrugated conduits containing halogen

Type	Cat. no.	16	20	25	32	40	50	
Packaging/quantity		50	100	100	50	25	10	
	259.30. ...	..016	..020	..025	..032	..040	..050	

FRVS-E

Conduit blanking plug to seal conduits at the construction site
and to protect unused conduits, 5 tags included per packaging

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		100	100	100	50	50	25	10
	259.70. ...	..016	..020	..025	..032	..040	..050	..063

FKV-E

Threaded plastic connector made of PA6 (RAL 7045, grey)
for corrugated plastic conduits with and without jacket,
zero halogen

Type	Cat. no.	16	20	25	32			
Connecting thread .. x 1.5		M16	M20	M25	M32			
Packaging/quantity		25	25	25	25			
	259.55. ...	..016	..020	..025	..032			

FWVS-E

Airtight plug (RAL 7035, light-grey) with membrane to insert
wires and cables; suitable for all corrugated conduits

Type	Cat. no.	16	20	25	32	40		
Packaging/quantity		25	50	50	25	25		
	259.75. ...	..016	..020	..025	..032	..040		

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

All dimensions without tolerances
are for reference only.

clipfix



Plastic clamp (RAL 7035, light-grey) for isofix-EL-F, FPKu-EM-F and FPKu-ES-F and all corrugated conduits; incl. clipsib safety bracket with types 40/50 and 63

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		100	100	100	100	50	25	25
	223.70. ...	..016	..020	..025	..032	..040	..050	..063

Installation distances

Installation spacing of clipfix clamps for rigid plastic conduits, spacing in cm

EN	16			20			25			32			40*			50*			63*		
Temp. °C	+25	+40	+50	+25	+40	+50	+25	+40	+50	+25	+40	+50	+25	+40	+50	+25	+40	+50	+25	+40	+50
clipfix	60	50	45	60	50	45	70	50	40	60	40	30	90	80	60	90	80	60	90	80	60
clipfix-H0	80	60	55	80	60	55	80	60	55	80	55	45	90	80	60	90	80	60	90	80	60
clipfix-UV	80	60	55	80	60	55	80	60	55	80	55	45	90	80	60	90	80	60			

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

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

Practical tip for clipfix

Characteristics:

- optimal design
- impact-resistant also in low temperatures
- can be used for rigid, smooth and corrugated conduits
- can also be delivered zero halogen and UV-stabilised

Installation advantages:

- long hole for fine adjustment
- designed for thread bolts
- can be joined together thanks to dovetail joint
- can be inserted into profile rail (11mm)

Shock resistance:

All straight length plastic conduits can be used for shock-resistant installations. Maximum load per bolt is 2kg (calculated from conduit and cable/wire).



Calculation example:

3m conduit (0.7kg) and cable/wire for 3m (0.4kg) equals a total weight of 1.1kg divided by the number of clamps to be installed (e. g. 5 pcs.) this makes a load/bolt of 0.22kg.



BSM-E fire protection sleeve



Application:

For single conduits and bundles of conduits, reliable sealing of fire protection walls and ceilings, retrofitting possible, smoke-tight sealing with FWVS-E plug or BSF-E Firestop fire protection sealant.

Delivery includes:

Each 4 pcs. metal expansion bolts 6 x 32mm, Torx counter-sunk screws 5x50mm and washers, identification label, installation manual.

Technical notes

General building authority approvals, ABZ, fire resistance class S90

Type	Cat. no.	63	110	125
Inside Ø mm		63	110	125
Packaging/quantity		5	1	1
	290.10. ...	..063	..110	..125

BSF-E Firestop fire protection sealant

NEW



Building material classification
B2 acc. to DIN 4102, part 1
General building authority
approval Z-19.11-1746

BSF-E Firestop is a dispersion-based sealant which forms a foam in case of fire. It does not contain any halogenated compounds which can cause corrosive or toxic gases in case of fire. Advantages: In case of fire, it will expand already at temperatures of 140 °C and form a firm, heat-insulating carbon foam which will prevent fire and smoke from propagating. The material is delivered in user-friendly cartridges and is free of solvents.

Application:

Sealant to seal and close conduit penetrations, cable ducts, expansion joints, fire doors and windows.

Technical notes

- material structure: pasty, elastic and stable
- specific weight [g/cm³]: 1,3
- components: 1
- working temperature: starting at +5 °C
- starts expanding: at approx. 140 °C
- foaming height, free: 20-fold
- foaming height, measured loaded: 16-fold
- foaming pressure: approx. 0.8 N/mm²
- shelf life: 12 months at room temperature

Type	Cat. no.	Cartridge
Length mm		230
Height mm		50
Width mm		50
Packaging/quantity		1
	290.10. ...	...000

Low Smoke Zero Halogen Conduits



FPKu-EM-F-LS0H Low Smoke

33541

A medium duty, zero halogen and low smoke conduit made of special plastic, light-grey (RAL 7035), non-flame propagating, high temperature resistance, cold impact strength in extreme temperatures, supplied in straight lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-EM-F-LS0H Low Smoke is a straight length plastic conduit for exposed installations in public buildings and industrial facilities. Since it is zero halogen, no corrosive or toxic gases develop in case of fire.

Thanks to very little development of smoke gas, escape routes can be found more quickly.

Physical characteristics:

- material: special plastic
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -45 °C to +120 °C
- rigid
- non-flame propagating
- 100% zero halogen
- corrosion-resistant
- Low Smoke

VDE 0605
DIN EN 61386-21
Classification: 33541
Minimum compressive strength:
750 N/5cm
100% zero halogen
acc. to DIN VDEV 0604-2-100
Determination of smoke gas density
acc. to DIN EN 61034-2



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.0	16.8	21.5	28.0	35.5	45.2	57.8
In bundles of m		111	111	57	57	21	21	21
Bundle weight kg		7.4	10.3	7.1	9.9	5.0	7.5	10.1
Pallet content m		7,992	4,995	3,135	2,052	1,407	798	504
Colour: light-grey	233.10. ...	..016	..020	..025	..032	..040	..050	..063
SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063
SBSKu-EM-LS0H elbow	233.60. ...	..016	..020	..025	..032	..040	..050	..063
Clipfix-H0 clamp	231.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Low Smoke Zero Halogen conduits manufactured by FRÄNKISCHE have clear advantages over conventional conduits for electrical installations:



low smoke gas acc. to DIN 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" and buildings, machinery or material assets
non-flame propagating, i. e. self-extinguishing	➤	conduits therefore do not contribute to flame propagation
high temperature resistance	➤	guarantees high operational reliability
high impact strength even in very low temperatures	➤	guarantees high operational reliability
good electrical insulation characteristics	➤	guarantees high operational reliability
no ecological and disposal problems during manufacturing and application	➤	environmentally compatible
100% zero halogen acc. to DIN VDEV 0604-2-100	➤	standardised

Low Smoke Zero Halogen Conduits



FFKuS-EM-F-LS0H Low Smoke

33532

Medium duty, zero halogen, corrugated special plastic conduit, plastic sheathing, black (RAL 9005), with low friction inner surface, non-flame propagating, high temperature resistant and cold impact resistant in extreme temperatures. Zero halogen corrugated conduits are marked with a white stripe.

Application:

Its heavy compressive strength and cold impact strength make FFKuS-EM-F-LS0H Low Smoke ideally suited for installation in concrete. Since it is zero halogen, no corrosive or toxic gases develop in case of fire. Thanks to very little development of smoke gas, escape routes can be found more quickly.

Physical characteristics:

- material: special plastic
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -45 °C to +105 °C
- pliable
- non-flame propagating
- 100% zero halogen
- corrosion-resistant
- Low Smoke

VDE 0605
DIN EN 61386-22
Classification: 33532
Minimum compressive strength:
750 N/5cm
100% zero halogen
acc. to DIN VDE V 0604-2-100
Determination of smoke gas density
acc. to DIN EN 61034-2



Type	Cat. no.	16	20**	25**	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.3	13.6	17.4	23.1	29.8	38.8	48.4
In coils of m		50	50	50	25	25	25	25
Coil weight kg		3.4	4.7	6.3	4.7	6.8	8.5	11.0
Pallet content m		2,000	1,400	1,200	700	200	150	125
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: black	255.10. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E-H0 coupling	259.10. ...	..016	..020	..025	..032	..040	..050	-
SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

**with ultra low friction inner surface



FFKu-EL-F-LS0H Low Smoke

23232

Light duty, zero halogen, corrugated special plastic conduit, black (RAL 9005), non-flame propagating, high temperature resistant. Zero halogen corrugated conduits are marked with a white stripe.

Application:

FFKu-EL-F-LS0H Low Smoke can be used for all concealed installations – and thanks to its flame-retardant characteristics also for installation in cavity walls. Since it is zero halogen, no corrosive or toxic gases develop in case of fire. Thanks to very little development of smoke gas, escape routes can be found more quickly.

Physical characteristics:

- material: special plastic
- compressive strength: light
- impact strength: medium
- temperature resistance range: -5 °C to +105 °C
- pliable
- non-flame propagating
- 100% zero halogen, corrosion-resistant
- Low Smoke

VDE 0605
DIN EN 61386-22
Classification: 23232
Minimum compressive strength:
320 N/5cm
100% zero halogen
acc. to DIN VDE V 0604-2-100
Determination of smoke gas density
acc. to DIN EN 61034-2



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.1	14.4	18.5	24.5	31.5	39.5	50.5
In coils of m		100	100	50	50	25	25	25
Coil weight kg		3.2	5.0	3.3	4.5	3.0	3.4	4.8
Pallet content m		2,800	2,000	1,200	800	500	400	150
Bend radius ≥ mm		60	80	100	130	170	220	250
Colour: black	241.10. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E-H0 coupling	259.10. ...	..016	..020	..025	..032	..040	..050	-
SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Low Smoke Zero Halogen Conduits



FFKu-EM-F-LS0H Low Smoke

33532

Medium duty, zero halogen, special plastic corrugated conduit. FFKu-EM-F-LS0H is non-flame propagating and high temperature resistant. Available in black, RAL 9005. Zero halogen corrugated conduits are marked with a white stripe.

Application:

The zero halogen, non-flame propagating material makes FFKu-EM-F-LS0H particularly suited for installation in both cavity walls and dropped ceilings, for exposed and concealed installation, and for installation on wood and in concrete.

Physical characteristics:

- material: special plastic
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -5 °C to +105 °C
- pliable
- non-flame propagating
- 100% zero halogen
- corrosion-resistant
- Low Smoke

VDE 0605
DIN EN 61386-22
Classification: 33532
Minimum compressive strength:
750 N/5cm
100% zero halogen
acc. to DIN VDEV 0604-2-100
Determination of smoke gas density
acc. to DIN EN 61034-2



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.1	14.0	18.0	23.8	30.6	38.6	49.6
In coils of m		100	100	50	50	25	25	25
Coil weight kg		4.7	6.0	4.6	6.4	4.8	5.3	7.0
Pallet content m		2,000	1,400	1,200	700	200	150	125
Bend radius ≥ mm		70	90	110	130	170	220	300
Colour: black	242.10. ...	..016	..020	..025	..032	..040	..050	..063

RMKu-E-H0 coupling	259.10. ...	..016	..020	..025	..032	..040	..050	
SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Zero Halogen Conduits

FPKu-EM-F-H0

33521



Medium duty, zero halogen, straight length special plastic conduit, light-grey (RAL 7035), non-flame propagating, cold impact strength in extreme temperatures, in lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-EM-F-H0 is a straight length plastic conduit for exposed installations in industrial and commercial buildings. Thanks to its medium compressive strength and high cold impact strength, the conduit is suited for all standard exposed installations. Since it is zero halogen, no corrosive or toxic gases develop in case of fire.

Physical characteristics:

- material: special plastic
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -45 °C to +90 °C
- rigid
- non-flame propagating
- 100% zero halogen
- corrosion-resistant

VDE 0605
DIN EN 61386-21
Classification: 33521
Minimum compressive strength:
750 N/5cm
100% zero halogen
acc. to DIN VDEV 0604-2-100



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.0	16.8	21.5	28.0	35.5	45.2	57.8
In bundles of m		111	111	57	57	21	21	21
Bundle weight kg		7.4	10.9	7.5	10.3	5.2	7.6	10.1
Pallet content m		7,992	4,995	3,135	2,052	1,407	798	504
Colour: light-grey	232.10. ...	..016	..020	..025	..032	..040	..050	..063

SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063
SBSKu-EM-H0 elbow	232.60. ...	..016	..020	..025	..032	..040	..050	..063
Clipfix-H0 clamp	231.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

FPKu-EL-F-H0

22521



A rigid zero halogen conduit made from special plastic. Supplied in straight lengths (3m), with one pre-moulded coupling. Provides light compressive strength. Available in light-grey, RAL 7035.

Application:

FPKu-EL-F-H0 is ideal for uncomplicated installations in environments requiring light compressive and mechanical strength, and zero halogen conduits. This conduit is not only zero halogen, but also provides excellent advantages for installations at low temperatures.

Physical characteristics:

- material: special plastic
- compressive strength: light
- impact strength: light
- temperature resistance range: -45 °C to +90 °C
- rigid
- non-flame propagating
- 100% zero halogen
- corrosion-resistant

VDE 0605
DIN EN 61386-21
Classification: 33521
Minimum compressive strength:
750 N/5cm
100% zero halogen
acc. to DIN VDEV 0604-2-100



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13,5	17.4	22.4	28.9	36.8	46.1	58.8
In bundles of m		111	111	57	57	21	21	21
Bundle weight kg		6.4	8.6	5.7	8.5	4.0	6.6	8.0
Pallet content m		7,992	4,995	3,135	2,052	1,407	798	504
Colour: light-grey	231.10. ...	..016	..020	..025	..032	..040	..050	..063

SMSKu-E-H0 coupling	231.50. ...	..016	..020	..025	..032	..040	..050	..063
SBSKu-EM-H0 elbow	232.60. ...	..016	..020	..025	..032	..040	..050	..063
Clipfix-H0 clamp	231.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Zero Halogen Conduit Accessories



SBSKu-EM-LS0H

Plastic push-fit elbow (RAL 7035, light-grey), zero halogen, low smoke gas for FPKu-EM-F-LS0H Low Smoke

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	25	25	25	25	10	5
	233.60. ...	..016	..020	..025	..032	..040	..050	..063



SBSKu-EM-H0

Plastic push-fit elbow (RAL 7035, light-grey), zero halogen for FPKu-EM-F-H0 and FPKu-EL-F-H0

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	25	25	25	25	10	5
	232.60. ...	..016	..020	..025	..032	..040	..050	..063



SMSKu-E-H0

Plastic push-fit elbow (RAL 7035, light-grey), zero halogen, for FPKu-EM-F-LS0H Low Smoke, FPKu-EM-F-H0 and FPKu-EL-F-H0

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	25	25	10	5
	231.50. ...	..016	..020	..025	..032	..040	..050	..063



RMKu-E-H0

Plastic push-fit coupling (RAL 9005, black), zero halogen for all zero halogen corrugated conduits

Type	Cat. no.	16	20	25	32	40	50	
Packaging/quantity		25	50	50	25	25	10	
	259.10. ...	..016	..020	..025	..032	..040	..050	



clipfix-H0

Plastic clamp (RAL 7035, light-grey), zero halogen for FPKu-EM-F-LS0H Low Smoke, FPKu-EM-F-H0 and FPKu-EL-F-H0 and all corrugated conduits; incl. clipsib safety bracket with types 40/50 and 63

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	50	25	25	10
	231.70. ...	..016	..020	..025	..032	..040	..050	..063

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

UV-Stabilised Conduits

FPKu-ES-F-UV grey

43411



Heavy duty straight length plastic conduit for installation outdoors, UV-stabilised, made of modified PVC, light-grey (RAL 7035), non-flame propagating, in lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-ES-F-UV is an UV-stabilised straight length plastic conduit for exposed installation outdoors. Its UV-stability, high compressive strength and corrosion resistance against acids and bases make the conduit ideally suited for all installations outdoors and installation in industrial facilities. UV-resistant for up to 10 years.

Physical characteristics:

- material: modified PVC
- compressive strength: heavy
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant
- UV-stabilised

VDE 0605

DIN EN 61386-21

Classification: 43411

Minimum compressive strength:
1250 N/5cm



Type	Cat. no.	20	25	32	40	50	
Outside Ø* mm		20.0	25.0	32.0	40.0	50.0	
Inside Ø mm		16.6	21.2	27.9	35.3	45.4	
In bundles of m		57	57	21	21	21	
Bundle weight kg		7.7	10.4	5.5	7.4	10.2	
Colour: grey	226.30. ...	..020	..025	..032	..040	..050	
SMSKu-E-UV coupling	225.53. ...	..020	..025	..032	..040	..050	
SBSKu-ES-UV elbow	226.63. ...	..020	..025	..032	..040	..050	
Clipfix-UV clamp	225.73. ...	..020	..025	..032	..040	..050	

*Production-related dimensional tolerances acc. to DIN EN 60423

FPKu-ES-F-UV black

43411



Heavy duty straight length plastic conduit for installation outdoors, UV-stabilised, made of modified PVC, black (RAL 9005), non-flame propagating, in lengths of 3m, with one pre-moulded coupling.

Application:

FPKu-ES-F-UV is a UV-stabilised straight length plastic conduit for exposed installation outdoors. Its UV-stability, high compressive strength and corrosion resistance against acids and bases make the conduit ideally suited for all installations outdoors and installation in industrial facilities. UV-resistant for up to 10 years.

Physical characteristics:

- material: modified PVC
- compressive strength: heavy
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant
- UV-stabilised

VDE 0605

DIN EN 61386-21

Classification: 43411

Minimum compressive strength:
1250 N/5cm



Type	Cat. no.	20	25	32	40	50	
Outside Ø* mm		20.0	25.0	32.0	40.0	50.0	
Inside Ø mm		16.6	21.2	27.9	35.3	45.4	
In bundles of m		57	57	21	21	21	
Bundle weight kg		7.7	10.4	5.5	7.4	10.2	
Colour: black	226.10. ...	..020	..025	..032	..040	..050	
SMSKu-E-UV coupling	225.51. ...	..020	..025	..032	..040	..050	
SBSKu-ES-UV elbow	226.61. ...	..020	..025	..032	..040	..050	
Clipfix-UV clamp	225.71. ...	..020	..025	..032	..040	..050	

*Production-related dimensional tolerances acc. to DIN EN 60423

UV-Stabilised Conduits

FPKu-EM-F-UV white

33411



Medium duty straight length plastic conduit for installation outdoors, UV-stabilised, made of modified PVC, white, non-flame propagating, in lengths of 2m, with one pre-moulded coupling, packed in resealable cardboard boxes.

Application:

FPKu-EM-F-UV is a UV-stabilised straight length plastic conduit for exposed installation outdoors. Its UV-stability, medium compressive strength and corrosion resistance against acids and bases make the conduit ideally suited for all installations outdoors and installation in industrial facilities. UV-resistant for up to 10 years.

Physical characteristics:

- material: modified PVC
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- rigid
- non-flame propagating
- corrosion-resistant
- UV-stabilised

VDE 0605
DIN EN 61386-21
Classification: 33411
Minimum compressive strength:
750 N/5cm



Type	Cat. no.	16	20	25	32			
Outside Ø* mm		16.0	20.0	25.0	32.0			
Inside Ø mm		13.4	17.1	21.7	28.6			
In bundles of m		70	40	30	16			
Bundle weight kg		6.0	4.4	4.7	3.4			
Colour: white	225.20. ...	..116	..120	..125	..132			
SMSKu-E-UV coupling	225.52. ...	..016	..020	..025	..032			
SBSKu-EM-UV elbow	225.62. ...	..016	..020	..025	..032			
Clipfix-UV clamp	225.72. ...	..016	..020	..025	..032			

*Production-related dimensional tolerances acc. to DIN EN 60423

FFKu-EM-F-UV Highspeed

33412



A medium duty, UV stabilised conduit made from modified PVC with low-friction inner surface. Suitable for installation outdoors. Available in black, RAL 9005.

Application:

FFKu-EM-F-UV is ideal for installation in concrete and installations in cavity walls. Its UV stability makes FFKu-EM-F-UV well suited for installation outdoors.

Physical characteristics:

- material: modified PVC
- compressive strength: medium
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant
- UV-stabilised

VDE 0605
DIN EN 61386-21
Classification: 33412
Minimum compressive strength:
750 N/5cm



Type	Cat. no.	16	20	25	32	40**	50**	63**
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.9	14.2	18.6	24.3	31.3	40.0	50.5
In bundles of m		50	50	50	25	25	25	25
Bundle weight kg		4.7	6.6	4.4	6.2	4.2	5.3	6.7
Pallet's content		2,000	1,600	1,200	700	400	400	150
Bend radius ≥ in mm		70	90	110	130	170	220	300
Colour: black	254.30. ...	..016	..020	..025	..032	..040	..050	..063
SMSKu-E-UV	225.51. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

**Upon request

UV-Stabilised Conduits

FFKuS-ES-F-UV Highspeed

43412



VDE 0605
DIN EN 61386-22
Classification: 43412
Minimum compressive strength:
1250 N/5cm



Heavy duty corrugated plastic conduit for installation outdoors, UV-stabilised, made of modified PVC, with low friction inner surface, plastic sheathing, black, non-flame propagating and with high cold impact strength.

Application:

FFKuS-ES-F-UV Highspeed is a UV-stabilised conduit which is particularly suited for installation outdoors and for highest requirements on compressive strength; can also be used underground or for installation in concrete. Its low friction inner surface allows easy insertion of cables and wires over long distances. UV-resistant for up to 10 years.

Physical characteristics:

- material: modified PVC
- compressive strength: heavy
- impact strength: medium
- temperature resistance range: -25 °C to +60 °C
- pliable
- non-flame propagating
- corrosion-resistant
- UV-stabilised

Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		10.5	13.7	18.4	24.1	30.9	39.5	50.3
In coils of m		50	50	50	25	25	25	25
Coil weight kg		4.8	7.3	8.7	6.3	8.5	11.0	14.8
Pallet content m		1,600	450	400	225	200	150	125
Bend radius ≥ mm		110	140	160	180	200	300	400
Colour: black	254.10. ...	..016	..020	..025	..032	..040	..050	..063
SMSKu-E-UV coupling	225.51. ...	..016	..020	..025	..032	..040	..050	..063
FRVS-E plug	259.70. ...	..016	..020	..025	..032	..040	..050	..063
FWVS-E plug	259.75. ...	..016	..020	..025	..032	..040	-	-

*Production-related dimensional tolerances acc. to DIN EN 60423

UV-Stabilised Conduit Accessories



SBSKu-ES-UV

UV-stabilised plastic push-fit elbow
for FPKu-ES-F-UV light-grey, black

Type	Cat. no.		20	25	32	40	50	
Packaging/quantity			25	25	25	25	10	
light-grey	226.63. ...		..020	..025	..032	..040	..050	
black	226.61. ...		..020	..025	..032	..040	..050	



SBSKu-EM-UV

UV-stabilised plastic push-fit elbow (RAL 9010, white)
for FPKu-EM-F-UV white

Type	Cat. no.	16	20	25	32			
Packaging/quantity		10	10	10	10			
white	225.62. ...	..016	..020	..025	..032			



SMSKu-E-UV

UV-stabilised plastic push-fit coupling
for FPKu-ES-F-UV light-grey, black, FPKu-EM-F-UV white, FFKu-EM-F-UV and FFKuS-ES-F-UV

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	25	25	25	25	10	5
light-grey	225.53. ...	–	..020	..025	..032	..040	..050	–
black	225.51. ...	..016	..020	..025	..032	..040	..050	..063
white	225.52. ...	..016	..020	..025	..032	–	–	–



clipfix-UV

UV-stabilised plastic clamp
for FPKu-ES-F-UV light-grey, black and FPKu-EM-F-UV white, and for all corrugated conduits;
incl. clipsib safety bracket with type 40/50

Type	Cat. no.	16	20	25	32	40	50	
Packaging/quantity		50	50	50	50	25	25	
light-grey	225.73. ...	–	..020	..025	..032	..040	..050	
black	225.71. ...	..016	..020	..025	..032	..040	..050	
white	225.72. ...	..016	..020	..025	..032	–	–	

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

Pliable Steel Conduits

FFSK-ES-UV

44412



Pliable heavy duty steel strip conduit with narrow-corrugation and UV-stabilised plastic jacket, with pre-moulded coupling (SM-E-V), high compressive strength, non-flame propagating, black (RAL 9005).

Application:

FFSK-ES-UV is ideal for all installation in residential and industrial buildings, and for installation outdoors. In addition, FFSK-ES-UV safely protects wires and cables.

Physical characteristics:

- material: outer jacket made of modified PVC, outer and inner wall made of steel strip
- corrosion-protected; intermediate layer made of special insulation material
- compressive strength: heavy
- impact strength: high
- temperature resistance range: -25 °C to + 60 °C
- pliable

VDE 0605

DIN EN 61386-22

Classification: 44412

Minimum compressive strength:
1250 N/5cm



Type	Cat. no.	20	25	32	40	50	
Outside Ø* mm		20.0	25.0	32.0	40.0	50.0	
Inside Ø mm		15.7	20.2	26.7	34.2	43.7	
In coils of m		25	25	25	25	25	
Coil weight kg		7.9	10.3	13.3	17.4	21.0	
Bend radius ≥ mm		140	160	200	300	400	
	201.20. ...	..020	..025	..032	..040	..050	

SM-E-V coupling	204.50. ...	..020	..025	..032	..040	..050	
SMK-E coupling	205.55. ...	..020	..025	-	-	-	

*Production-related dimensional tolerances acc. to DIN EN 60423, in relation to the main conduit

FFS-ES

44562



Pliable heavy duty steel strip conduit with narrow corrugation, heavy compressive strength. One pre-moulded coupling (SM-E-V).

Application:

FFS-ES can be used for all concealed and exposed installations in residential and industrial buildings, and under harsh thermal conditions, e. g. for installation in hot asphalt. In addition, FFS-ES safely protects wires and cables.

Physical characteristics:

- material: outside and inside walls made of steel strip
- corrosion-protected; intermediate layer made of special insulation material
- compressive strength: heavy
- impact strength: high
- temperature resistance range: -45 °C to +250 °C
- pliable

VDE 0605

DIN EN 61386-22

Classification: 44562

Minimum compressive strength:
1250 N/5cm



Type	Cat. no.	16	20	25	32	40	50	
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	
Inside Ø mm		11.7	15.7	20.2	26.7	34.2	43.7	
In coils of m		25	25	25	25	25	25	
Coil weight kg		4.9	6.1	7.7	9.7	12.2	15.3	
Bend radius ≥ mm		140	140	160	200	300	400	
	201.10. ...	..016	..020	..025	..032	..040	..050	

SM-E-V coupling	204.50. ...	..016	..020	..025	..032	..040	..050	
SMK-E coupling	205.55. ...	..016	..020	..025	-	-	-	

*Production-related dimensional tolerances acc. to DIN EN 60423

Varnished Steel Conduits

Staro Steck-ES

44561



Varnished steel conduit, black (RAL 9005), high compressive strength, in lengths of 3m.

Application:

Its high compressive strength and high temperature resistance make Staro Steck-ES ideal for environments requiring high mechanical strength.

Physical characteristics:

- material: rolled mild steel, baked finish
- compressive strength: heavy
- impact strength: high
- temperature resistance range: -45 °C to + 250 °C
- rigid

VDE 0605
 DIN EN 61386-21
 Classification: 44561
 Minimum compressive strength:
 1250 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.3	17.3	22.1	29.0	37.0	47.0	59.9
In bundles of m		30	30	30	21	15	15	15
Bundle weight kg		11.0	14.1	21.9	17.8	16.5	22.0	25.9
Finish: varnished	203.10. ...	..016	..020	..025	..032	..040	..050	..063

SMS-E coupling	203.50. ...	..016	..020	..025	..032	..040	..050	..063
SBS-E elbow	203.60. ...	..016	..020	..025	..032	..040	..050	..063
SES-E end cap	203.90. ...	..016	..020	..025	..032	..040	..050	..063
SSG-E-V steel clamp	205.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Staro Gewinde-ES

55561



Varnished steel conduit, black (RAL 9005), very heavy compressive strength, in lengths of 3m, threads on both sides and one screwed-on coupling (SM-E).

Application:

Its extremely heavy compressive strength and high temperature resistance make Staro Gewinde-ES ideal for environments requiring extreme mechanical strength and tight connections.

Physical characteristics:

- material: rolled mild steel, baked finish
- compressive strength: very heavy
- impact strength: very high
- temperature resistance range: -45 °C to + 250 °C
- rigid

VDE 0605
 DIN EN 61386-21
 Classification: 55561
 Minimum compressive strength:
 4000 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		12.7	16.3	21.3	28.2	36.2	46.2	58.7
In bundles of m		30	30	30	21	15	15	15
Bundle weight kg		14.1	20.7	27.5	24.6	22.5	28.2	40.2
Finish: varnished	202.10. ...	..016	..020	..025	..032	..040	..050	..063

SM-E coupling	202.50. ...	..016	..020	..025	..032	..040	..050	..063
SB-E elbow	202.60. ...	..016	..020	..025	..032	..040	..050	..063
SE-E end cap	202.90. ...	..016	..020	..025	..032	..040	..050	..063
SSG-E-V steel clamp	205.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423; threads acc. to DIN EN 60423, pitch x 1.5mm

Varnished Steel Conduit Accessories



SMS-E

Gunmetal finish push-fit steel coupling for Staro Steck-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	203.50. ...	..016	..020	..025	..032	..040	..050	..063



SBS-E

Push-fit steel elbow for Staro Steck-ES, black varnish

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	203.60. ...	..016	..020	..025	..032	..040	..050	..063



SES-E

Gunmetal finish push-fit steel end cap for Staro Steck-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	203.90. ...	..016	..020	..025	..032	..040	..050	..063



SM-E

Gunmetal finish threaded steel coupling for Staro Gewinde-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	202.50. ...	..016	..020	..025	..032	..040	..050	..063



SB-E

Threaded steel elbow for Staro Gewinde-ES, black varnish, with one screwed-on coupling

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	202.60. ...	..016	..020	..025	..032	..040	..050	..063



SE-E

Gunmetal finish threaded steel end cap for Staro Gewinde-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	202.90. ...	..016	..020	..025	..032	..040	..050	..063



SN-E

Gunmetal finish threaded steel nipple for SM-E or SGR-E

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	202.70. ...	..016	..020	..025	..032	..040	..050	..063



SGR-E

Gunmetal finish steel lock ring for Staro Gewinde-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	202.80. ...	..016	..020	..025	..032	..040	..050	..063



SSG-E-V

Galvanised steel clamp for Staro Steck-ES and Staro Gewinde-ES

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	25	25	25	20
	205.70. ...	..016	..020	..025	..032	..040	..050	..063

Galvanised Steel Conduits

Staro Steck-ES-V

44571



VDE 0605
DIN EN 61386-21
Classification: 44571
Minimum compressive strength:
1250 N/5cm



Galvanised steel conduit, heavy compressive strength, in lengths of 3m.

Application:

Its corrosion-resistant hot-dip galvanised finish makes Staro Steck-ES-V ideal for installation outdoors. Its heavy compressive strength and high temperature resistance make Staro Steck-ES-V an excellent choice for environments requiring high mechanical strength.

Physical characteristics:

- material: rolled mild steel, hot-dip galvanised finish acc. to EN ISO 1461
- compressive strength: heavy
- impact strength: high
- temperature resistance range: -45 °C to +400 °C
- rigid

Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.3	17.3	22.1	29.0	37.0	47.0	59.9
In bundles of m		30	30	30	21	15	15	15
Bundle weight kg		12.2	15.9	24.3	19.6	18.3	23.6	28.5
Finish: galvanised	205.10. ...	..016	..020	..025	..032	..040	..050	..063

SMS-E-V coupling	205.50. ...	..016	..020	..025	..032	..040	..050	..063
SBS-E-V elbow	205.60. ...	..016	..020	..025	..032	..040	..050	..063
SES-E-V end cap	205.90. ...	..016	..020	..025	..032	..040	..050	..063
SSG-E-V steel clamp	205.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Staro Gewinde-ES-V

55571



VDE 0605
DIN EN 61386-21
Classification: 55571
Minimum compressive strength:
4000 N/5cm



Galvanised steel conduit, very heavy compressive strength, in lengths of 3m, threads at both ends and one screwed-on coupling (SM-E-V).

Application:

Its corrosion-resistant hot-dip galvanised finish makes Staro Gewinde-ES-V ideal for installation outdoors. Its heavy compressive strength and high temperature resistance make Staro Gewinde-ES-V the perfect choice for environments requiring extreme mechanical resistance and tight connections.

Physical characteristics:

- conduit material: rolled mild steel, hot-dip galvanised finish according to EN ISO 1461
- compressive strength: very heavy
- impact strength: very high
- temperature resistance range: -45 °C to +400 °C
- rigid

Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		12.7	16.3	21.3	28.2	36.2	46.2	58.7
In bundles of m		30	30	30	21	15	15	15
Bundle weight kg		15.3	22.5	30.0	26.6	24.7	30.2	42.4
Finish: galvanised	204.10. ...	..016	..020	..025	..032	..040	..050	..063

SM-E-V coupling	204.50. ...	..016	..020	..025	..032	..040	..050	..063
SB-E-V elbow	204.60. ...	..016	..020	..025	..032	..040	..050	..063
SE-E-V end cap	204.90. ...	..016	..020	..025	..032	..040	..050	..063
SSG-E-V steel clamp	205.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423; threads acc. to DIN EN 60423, pitch x 1.5mm

Galvanised Steel Conduit Accessories



SMS-E-V

Galvanised steel push-fit coupling for Staro Steck-ES-V; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	205.50. ...	..016	..020	..025	..032	..040	..050	..063



SBS-E-V

Hot-dip galvanised push-fit steel elbow for Staro Steck-ES-V

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	205.60. ...	..016	..020	..025	..032	..040	..050	..063



SES-E-V

Galvanised push-fit steel end cap for Staro Steck-ES-V; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	205.90. ...	..016	..020	..025	..032	..040	..050	..063



SM-E-V

Galvanised threaded steel coupling for Staro Gewinde-ES-V, FFS-ES and FFSK-ES-UV; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	204.50. ...	..016	..020	..025	..032	..040	..050	..063



SB-E-V

Hot-dip galvanised threaded steel elbow for Staro Gewinde-ES-V, with one screwed-on coupling

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	204.60. ...	..016	..020	..025	..032	..040	..050	..063



SE-E-V

Galvanised threaded steel end cap for Staro Gewinde-ES-V; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	204.90. ...	..016	..020	..025	..032	..040	..050	..063



SN-E-V

Galvanised threaded steel nipple for SM-E-V or SGR-E; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	204.70. ...	..016	..020	..025	..032	..040	..050	..063



SGR-E-V

Galvanised steel lock ring for Staro Gewinde-ES-V; zinc-nickel alloy plating

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	204.80. ...	..016	..020	..025	..032	..040	..050	..063



SSG-E-V

Galvanised steel clamp for Staro Steck-ES-V and Staro Gewinde-ES-V

Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	25	25	25	20
	205.70. ...	..016	..020	..025	..032	..040	..050	..063

Aluminium Conduits

Alu Steck-ES

44561



Aluminium conduit, heavy compressive strength, in lengths of 3m.

Application:

Alu Steck-ES is ideal for environments requiring excellent corrosion resistance, high mechanical protection and light-weight conduits.

Physical characteristics:

- material: extruded aluminium
- compressive strength: heavy
- impact strength: high
- temperature resistance range: -45 °C to +250 °C
- rigid

VDE 0605
DIN EN 61386-21
Classification: 44561
Minimum compressive strength:
1250 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.5	17.5	22.4	29.4	37.4	47.3	60.2
In bundles of m		30	30	30	30	15	15	15
Bundle weight kg		3.5	4.2	6.8	8.7	5.5	6.5	9.7
Finish: extruded aluminium	209.10. ...	..016	..020	..025	..032	..040	..050	..063

AMS-E coupling	209.50. ...	..016	..020	..025	..032	..040	..050	..063
ABS-E elbow	209.60. ...	..016	..020	..025	..032	..040	..050	..063
AES-E end cap	209.90. ...	..016	..020	..025	..032	..040	..050	..063
AKS-E clamp	209.70. ...	..016	..020	..025	..032	..040	..050	..063
ASG-E clamp	209.75. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

Alu Gewinde-ES

55561



Aluminium conduit, very heavy compressive strength, in lengths of 3m, threads at both ends and one screwed-on coupling (AMG-E).

Application:

Alu Gewinde-ES is ideal for environments requiring excellent corrosion resistance, high mechanical protection, tight connections and lightweight conduits.

Physical characteristics:

- material: extruded aluminium
- compressive strength: very heavy
- impact strength: very high
- temperature resistance range: -45 °C to +250 °C
- rigid

VDE 0605
DIN EN 61386-21
Classification: 55561
Minimum compressive strength:
4000 N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		12.7	16.5	21.1	28.4	36.2	46.2	58.8
In bundles of m		30	30	30	30	15	15	15
Bundle weight kg		5.2	7.6	9.0	11.7	7.9	9.9	14.1
Finish: extruded aluminium	210.10. ...	..016	..020	..025	..032	..040	..050	..063

AMG-E coupling	210.50. ...	..016	..020	..025	..032	..040	..050	..063
ABG-E elbow	210.60. ...	..016	..020	..025	..032	..040	..050	..063
AEG-E end cap	210.90. ...	..016	..020	..025	..032	..040	..050	..063
AKS-E clamp	209.70. ...	..016	..020	..025	..032	..040	..050	..063
ASG-E clamp	209.75. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423; threads acc. to DIN EN 60423, pitch x 1.5mm

Aluminium Conduit Accessories

AMS-E

Aluminium push-fit coupling for Alu Steck-ES



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	50	20	20	20
	209.50. ...	..016	..020	..025	..032	..040	..050	..063

ABS-E

Aluminium push-fit elbow for Alu Steck-ES



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	209.60. ...	..016	..020	..025	..032	..040	..050	..063

AES-E

Aluminium push-fit end cap for Alu Steck-ES



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	209.90. ...	..016	..020	..025	..032	..040	..050	..063

AMG-E

Threaded aluminium coupling for Alu Gewinde-ES



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	50	20	20	20
	210.50. ...	..016	..020	..025	..032	..040	..050	..063

ABG-E

Threaded aluminium elbow for Alu Gewinde-ES with one screwed-on coupling



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		15	25	25	20	15	5	3
	210.60. ...	..016	..020	..025	..032	..040	..050	..063

AEG-E

Threaded aluminium end cap for Alu Gewinde-ES



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	50	50	50	25	10	5
	210.90. ...	..016	..020	..025	..032	..040	..050	..063

AKS-E

Aluminium clamp for Alu Steck-ES and Alu Gewinde-ES aluminium conduits



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	50	20	20	20
	209.70. ...	..016	..020	..025	..032	..040	..050	..063

ASG-E

Aluminium clamp for Alu Steck-ES and Alu Gewinde-ES aluminium conduits



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		50	50	50	25	25	25	20
	209.75. ...	..016	..020	..025	..032	..040	..050	..063

Stainless Steel Conduits

V4 Steck-ES

55571



W1.4571 (V4A) stainless steel conduit, very heavy compressive strength, in lengths of 3m.

Application:

V4 Steck-ES is ideal for environments requiring excellent corrosion resistance and durability, such as in tunnel engineering or water treatment plants, in the food and beverage industry, and in breweries etc.

Physical characteristics:

- material: brushed stainless steel, material number: 1.4571
- acc. to DIN EN 10088-1, -2, -3 (V4A) AISI 316 TI
- very heavy compressive strength and high impact strength
- temperature resistance range: -45 °C to +400 °C
- rigid

VDE 0605
DIN EN 61386-21
Classification: 55571
Minimum compressive strength:
4000N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.8	17.8	22.6	29.6	37.4	47.4	59.8
In bundles of m		15	15	15	15	9	9	9
Bundle weight kg		5.4	6.6	10.2	13.2	9.9	13.0	20.7
	208.14. ...	..016	..020	..025	..032	..040	..050	..063

VMS-E coupling	208.50. ...	..016	..020	..025	..032	..040	..050	..063
VBS-E elbow	208.60. ...	..016	..020	..025	..032	..040	..050	..063
VES-E end cap	208.90. ...	..016	..020	..025	..032	..040	..050	..063
VSG-E clamp	208.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

V2 Steck-ES

55571



W1.4301 (V2A) stainless steel conduit, in lengths of 3m, very heavy compressive strength.

Application:

V2 Steck-ES is ideal for environments requiring excellent corrosion resistance and durability, and for optically appealing solutions.

Physical characteristics:

- material: brushed stainless steel, material number: 1.4301
- acc. to DIN EN 10088-1, -2, -3 (V2A) AISI 304
- very high compressive and impact strength
- temperature resistance range: -45 °C to +400 °C
- rigid

VDE 0605
DIN EN 61386-21
Classification: 55571
Minimum compressive strength:
4000N/5cm



Type	Cat. no.	16	20	25	32	40	50	63
Outside Ø* mm		16.0	20.0	25.0	32.0	40.0	50.0	63.0
Inside Ø mm		13.8	17.8	22.6	29.6	37.4	47.4	59.8
In bundles of m		15	15	15	15	9	9	9
Bundle weight kg		5.4	6.6	10.2	13.2	9.9	13.0	20.7
	208.10. ...	..016	..020	..025	..032	..040	..050	..063

VMS-E coupling	208.50. ...	..016	..020	..025	..032	..040	..050	..063
VBS-E elbow	208.60. ...	..016	..020	..025	..032	..040	..050	..063
VES-E end cap	208.90. ...	..016	..020	..025	..032	..040	..050	..063
VSG-E clamp	208.70. ...	..016	..020	..025	..032	..040	..050	..063

*Production-related dimensional tolerances acc. to DIN EN 60423

All dimensions without tolerances are for reference only.

Stainless Steel Conduit Accessories

VMS-E

Stainless steel push-fit coupling to connect V2 Steck-ES and V4 Steck-ES. Material: W 1.4571 (V4A)



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		5	5	5	5	3	3	3
	208.50. ...	..016	..020	..025	..032	..040	..050	..063

VBS-E

Stainless steel push-fit elbow for V2 Steck-ES and V4 Steck-ES. Material: W1.4571 (V4A)



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		5	5	5	5	3	3	3
	208.60. ...	..016	..020	..025	..032	..040	..050	..063

VES-E

Stainless steel end cap for V2 Steck-ES and V4 Steck-ES. Material: W 1.4571 (V4A)



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		5	5	5	5	3	3	3
	208.90. ...	..016	..020	..025	..032	..040	..050	..063

VSG-E

Stainless steel clamp to reliably mount V2 Steck-ES and V4 Steck-ES. Material: W 1.4571 (V4A)



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		25	25	25	25	10	10	10
	208.70. ...	..016	..020	..025	..032	..040	..050	..063

VMK-E

Stainless steel quick connect coupling to quickly and reliably connect (IP 67) V2 Steck-ES. Material: W 1.4301 (V2A)



Type	Cat. no.	16	20	25	32	40	50	
Packaging/quantity		5	5	5	5	3	3	
	208.55. ...	..016	..020	..025	..032	..040	..050	

VMG-E

Stainless steel quick connect threaded nipple to quickly and reliably connect (IP 67) V2 Steck-ES. Material: W 1.4301 (V2A)



Type	Cat. no.	16	20	25	32	40	50	
Metric thread x 1.5		16	20	25	32	40	50	
Packaging/quantity		5	5	5	5	3	3	
	208.75. ...	..016	..020	..025	..032	..040	..050	

Accessories for all Applications

Range of Accessories



An equally broad range of useful accessories completes our large array of conduits. FRÄNKISCHE offers a wide range of practical products that allow for safe and professional installations.

FRÄNKISCHE high-quality conduits and fittings perfectly complement each other and form a system meeting highest quality requirements. Our products have been designed and refined with practical applications in mind.

SMK-E

Quick connect coupling for steel and aluminium conduits
Material: nickel-plated brass



Type	Cat. no.	16	20	25				
Packaging/quantity		5	5	5				
Length in mm		58	58	58				
	205.55. ...	..016	..020	..025				

SMG-E

Quick connect threaded nipple for steel and aluminium conduits
Material: nickel-plated brass



Type	Cat. no.	16	20	25				
Metric thread x 1.5		16	20	25				
Length in mm		45	45	45				
Packaging/quantity		5	5	5				
	205.75. ...	..016	..020	..025				

E-Ku-E

Zero halogen plastic push-fit end cap for all straight length and metal conduits.
Available in light-grey and black. E-Ku-E black is UV-resistant for up to 10 years.



Type	Cat. no.	16	20	25	32	40	50	63
Packaging/quantity		100	100	100	50	50	25	20
light-grey	259.95. ...	..016	..020	..025	..032	..040	..050	..063
black UV	259.96. ...	..016	..020	..025	..032	..040	..050	..063

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

Cable Ducts – Kabuflex

Note on Kabuflex

These robust special structured-wall cable ducts are manufactured in compliance with corresponding standards (e. g. DIN 16961, DIN EN 61386-24) and meet applicable telecommunication requirements. For underground installation, follow our installation manual. In addition, DIN 4033, ZTV-A-StB 89 by the FGSV and the installation manual A 515 by the KRV apply.



VDE 0605
DIN EN 61386-24
Compressive strength:
min. 450N



Kabuflex® S

Rigid but pliable zero halogen structured-wall PE-HD cable duct (corrugated outside and smooth inside), black, high compressive strength and impact strength, straight lengths of 3m, with one coupling (sandtight) or in straight lengths of 6m without coupling, temperature resistance range: -5 °C to +80 °C.

Application: Kabuflex® S is ideal as cable duct or conduit, for use in high load environments e. g. under roads, squares, underground etc. Couplings provide sandtight (ST) joints. Profile sealing rings provide watertight seals (WT).

Type	Cat. no.	75	110	120 ¹⁾	125	145 ¹⁾	160	175
Outside Ø* mm		75	110	120	125	145	160	175
Inside Ø mm		63	94	99	107	125	137	149
Bend radius ≥ mm ²⁾		2,000	2,800	3,000	3,200	3,600	4,000	4,500
3m straight lengths with coupling (ST); Colour: black	190.21. ...	..075	..110	..120	..125	..145	..160	..175
In bundles of m		15	15	15	15	15	15	15
Bundle weight kg		5.7	9.0	11.0	11.6	13.7	17.3	19.8
Pallet content m		630	300	270	231	180	138	126
6m straight lengths without coupling; Colour: black	190.40. ...	..075	..110	..120	..125	..145	..160	..175
In bundles of m		30	30	30	30	30	30	30
Bundle weight kg		11.3	17.9	21.9	23.1	27.3	34.5	39.5
Pallet content m		1.260	600	540	462	360	276	252

Kabuflex® R

Flexible zero halogen structured-wall PE-HD cable duct (corrugated outside and smooth inside), black, high compressive strength and impact strength, with one coupling (sandtight), temperature resistance range: -5 °C to +80 °C.

Application: A feed cord is supplied with each Kabuflex® R coil. It is also available without feed cord upon request. Couplings provide sandtight (ST) joints. Profile sealing rings provide watertight seals (WT). For installation under roads, squares, underground etc.



VDE 0605
DIN EN 61386-24
Compressive strength:
min. 450N



Type	Cat. no.	40	50	63	75	90	110	120 ¹⁾	125	160
Outside Ø* mm		40	50	63	75	90	110	120	125	160
Inside Ø mm		32	40	53	63	76	94	99	108	137
In coils of m		50	50	50	50	50	50	25	25	25
Coil weight kg		7.0	9.3	12.8	17.0	22.5	31.0	18.0	19.3	26.3
Bend radius ≥ mm ²⁾		350	350	350	350	350	500	500	600	750
	191.30. ...	..040	..050	..063	..075	..090	..110	..120	..125	..160

*Production-related dimensional tolerances acc. to DIN EN 61386-24

¹⁾ Outside dimensions not in compliance with DIN EN 61386-24

²⁾ 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

Kabuflex® R – UV, UV-resistant for up to 10 years. Technical data correspond to Kabuflex® R.

Type	Cat. no.					110		
In coils of m						50		
	191.40. ...					..110		



All dimensions without tolerances are for reference only.

Kabuflex®S and Kabuflex®R Accessories

for cable ducts, coiled or in straight lengths.



8-fold



Coupling ST	40	50	63	75	90	110	120	125	145	160	175
Cat. no. 199.10. ...	..040	..050	..063	..075	..090	..110	..120	..125	..145	..160	..175

Profile sealing ring	40	50	63	75 ¹⁾	90	110	120	125	145	160	175
Cat. no. 199.80. ...	..040	..050	..063	..075 ¹⁾	..090	..110	..120	..125	..145	..160	..175

End plug ST	40	50	63	75	90	110	120	125	145	160	175
Cat. no. 199.70. ...	..040	..050	..063	..075	..090	..110	..120	..125	..145	..160	..175

End plug WT [*]						110	120	125		160	175
Cat. no. 199.71. ...						..110	..120	..125		..160	..175

KG-pipe adaptor						110					
Cat. no. 199.95. ...						..110					

¹⁾If Hauff multiple house lead-ins are used, please order the sealing ring cat. no. 199.82.075.

*Incl. profile sealing ring

Bend for small bend radii under tight installation conditions for Kabuflex S

Bend	Cat. no.	75	110	120	125	145	160	175
Outside Ø* mm		75	110	120	125	145	160	175
Inside Ø mm		63	94	99	107	125	137	149
Length m 45° bend		0.9	1	1	1.1	1.2	1.2	1.2
Length m 90° bend		1.5	1.8	1.9	2	2.1	2.1	2.1
Bend radius mm		750	900	900	1,100	1,100	1,100	1,100
Packaging/quantity		5	5	5	5	5	5	5
45° bend	190.85. ...	..075	..110	..120	..125	..145	..160	..175
90° bend	190.80. ...	..075	..110	..120	..125	..145	..160	..175

*Production-related dimensional tolerances acc. to DIN EN 60423

Spacer for exact installation spacing during the installation of Kabuflex conduit bundles

Spacer	Cat. no.	75	110	120 ¹⁾			160	
Folds								
2	199.42. ...	..075	..110	..120			..160	
4	199.44. ...	..075	..110	..120			..160	
6	199.46. ...	..075	..110	..120			..160	
8	199.48. ...	..075	..110	..120			..160	

¹⁾Also suitable for DN 125.

Wall collar for absolutely tight and leak-proof wall penetration of Kabuflex Set, including strap and tighteners

Wall collar	Cat. no.	40	50	63	75	110	120/125	160	175
Core drill hole mm		≈250	≈250	≈250	≈250	≈300	≈300	≈350	≈350
	199.60. ...	..040	..050	..063	..075	..110	..120	..160	..175



Water Pressure-Tight Wall Penetration

NEW



Kabu-Seal pressure sealing ring

Kabu-Seal is a two-piece pressure sealing ring with a solid rubber core, medium hardness, permanently bonded to a thermoset elastomer jacket that yields very soft hardness. Its advantage is its very good adhesive strength, which makes the sealing tight even with little tightening torque of the screw connection.

Can be installed successfully without using special tools (torque spanner) at sight (yellow bead) at the compressive flange edges.

Application:

As water pressure-tight wall penetration for Kabuflex® S and Kabuflex® R for wall and ceiling penetrations.

Chemically resistant against: oils, greases, many solvents, aromatic fuels (gasoline, kerosene, methane), acetone, alcohol, salt water

Mechanical properties:

- abrasion resistance
- tear resistance
- wear resistance
- impact resistance
- heat resistance

Technical properties:

- density: 1.5 bar (15m WS)
- compressive flanges: stainless steel V2A / 3mm
- connectors: 6 kits M6 stainless steel V2A
- elastomer: EPDM/PUR

Type	Cat. no.	63	110
Outside Ø mm		100	150
Inside Ø mm		63	110
Core drill hole mm		100	150
Wall thickness mm		20	20
Width mm		53	53
Packaging/quantity		1	1
Colour: yellow	199.65. ...	..063	..110

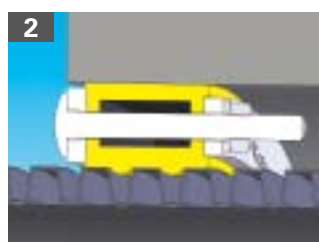
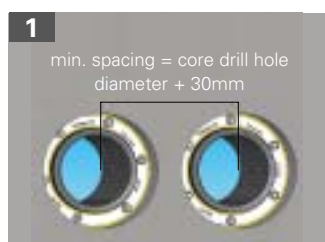


Figure 1:
Minimum spacing when installing Kabu-Seal pressure sealing rings next to each other

Figure 2:
Cross-section when installing Kabu-Seal pressure sealing ring

Cable Conduits and Protectors

FFVYN



PVC-U cable conduit. Available in black, RAL 9005.
Due to its inflammability and corrosion resistance, the light duty flexible FFVYN is ideal as cable duct or conduit.

Type	Cat. no.	50	65	80	100	125**	160	200**
Outside Ø* mm		50.0	65.1	79.8	99.9	125.0	159.0	199.2
Inside Ø mm		44	58	71,5	91	115	144	182
In bundles of m		25	25	25	25	50	25	45
Bundle weight kg		7.1	9.4	13.3	18.3	26.5	41.0	55.2
	185.20. ...	..050	..065	..0.80	..100	..125	..160	..200

*Production-related dimensional tolerances according DIN 1187
Note: Pressure test according to DIN EN 61386-24; light >250 N.
** Available upon request

Coupling FFVYN



Plastic push-fit coupling for FFVYN.

Type	Cat. no.	50	65	80	100	125**	160	200**
	185.50. ...	..050	..065	..080	..100	..125	..160	..200

Cable Conduits and Protectors

PVC-U cable protectors. The safe solution for underground installation of high-voltage and low-voltage cables, and tele-communications, signal and control lines.

Standard colour: red

Special colours available upon request (quantity dependent).

Length: 50 or 100cm. (Other lengths available upon request)

All types are available without mating pins/retainers. Mating pins provide for a smooth, tight-fitting and secure connection. Also available in PE-HD; other widths are available upon request.



FRH round cable protector

Type/width mm	Cat. no.	40	50	60	80	100
50cm length	180.20. ...	..040	..050	..060	..080	..100
100cm length	180.40. ...	..040	..050	..060	..080	..100
Pallet content linear metres		1,500	1,500	1,500	1,000	1,000



FHA cable protector

Type/width mm	Cat. no.	110	120	160	180	200
50cm length	181.20. ...	..110	..120	..160	..180	..200
100cm length	181.40. ...	..110	..120	..160	..180	..200
Pallet content linear metres		1,500	1,500	1,500	1,000	1,000



FPL cable protector

Type/width mm	Cat. no.	120	180	200	250	300
50cm length	182.20. ...	..120	..180	..200	..250	..300
100cm length	182.40. ...	..120	..180	..200	..250	..300
Pallet content linear metres		1,500	1,500	1,500	1,000	750

FTWB

Please install the PE-LD trench warning tape approx. 20-40cm above underground cables and conduits.

This prevents damage to underground cables and conduits.

Type:

yellow trench warning tape: **“Achtung Starkstromkabel” (attention high-voltage cable).**



Spool content	Cat. no.	Width	Thickness	Colour
250m	184.10.000	40mm	0.15mm	yellow

Pole Foundation Conduits

Furowell

Zero halogen structured-wall PE-HD pole foundation conduit (corrugated outside, smooth inside), black, flame propagating.

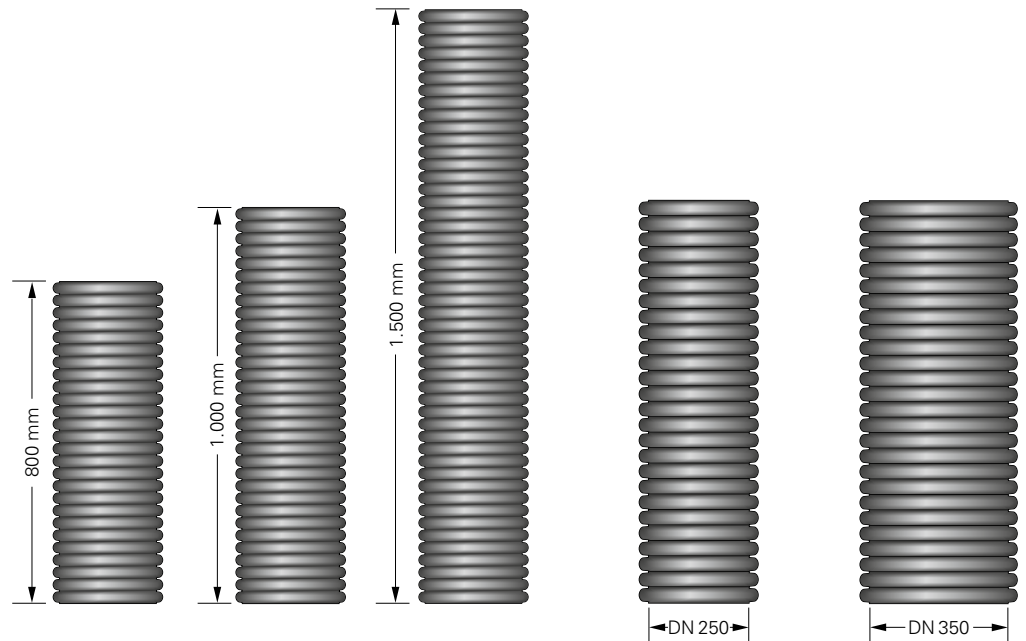
Application:

Furowell pole foundation conduits for the installation of all types of poles, masts and rods: e.g. for lamp posts, traffic signs, flag poles, mile markers, foundations for playground equipment etc.



Type	Cat. no.	DN 250			DN 300	DN 350		
Outside Ø mm		293			346	400		
Inside Ø mm		253			300	345		
Supply lengths mm		800	1,000	1,000	1,000	800	1,000	1,500
	295..	..10.250	..11.250	..12.250	..11.300	..10.350	..11.350	..12.350
Pcs. per palette		22	22	11	12	12	12	6

End cap		DN 250			DN 300	DN 350		
Colour		yellow			black	black		
	295..	..70.250			..70.300	..70.350		



Furowell – easy to handle
Use a commercially available hole cutter (for socket outlets) DN 68 to cut accurate holes for Kabuflex DN 63.



Flexible joining system for corrugated plastic conduits



FKC Click

... technology made easy

- easy and quick to join and release
- no unintended conduit releases
- compact design facilitates installation in cramped locations
- compatible with conduits from other manufacturers
- sealing reliability even under dynamic conditions and when conduit sections have not been accurately cut (IP66 and IP68)
- coloured clamping ring indicates protection level



For more information, please refer to our main catalogue for cable conduits and cable ducting!

or at: www.fraenkische-elektro.de

Resealable Corrugated Conduits

Co-flex PP – resealable, slit corrugated conduits



Light duty resealable, slit corrugated conduit made of polypropylene, available in black. Light compressive strength, high temperature resistance and non-flame propagating.

Application:

Co-flex PP is used to retrofit cables and wires in machine and plant engineering for protection, and for office and private applications. It provides mechanical protection of cables and wires and allows easy retrofit installation around already installed cables and wires. In addition, Co-flex PP provides protection against damage from marten and rodent bites.

Physical characteristics:

- material: PP, modified
- temperature resistance range: -40 °C to +135 °C, short-term temperature resistance up to +150 °C
- non-flame propagating
- colour: black
- classification: 13434

Type	Cat. no.	10	14	20	23	37	45	70
Outside Ø mm		13.4	18.5	25.3	30.8	41.4	54.0	79.8
Inside Ø mm		8.4	12.5	19.2	23.4	31.0	42.7	66.5
Bend radius approx. mm*		70	95	130	155	205	190	375
Packaging in m		50	50	50	50	25	25	10
Colour: black	370. ... .00	..010..	..014..	..020..	..023..	..037..	..045..	..070..
Packaging in m		10	10	10	10	10	10	–
Colour: black	370. ... .02	..010..	..014..	..020..	..023..	..037..	..045..	–
Packaging in m		5	5	5	5	5	5	–
Colour: black	370. ... .03	..010..	..014..	..020..	..023..	..037..	..045..	–

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

Co-flex PA6 – resealable, slit corrugated conduits



Light duty resealable, slit corrugated conduit made of polyamide 6, available in black. Light compressive strength, high temperature resistance, cold impact strength in extreme temperatures and non-flame propagating.

Application:

Co-flex PA6 is ideal to retrofit wires and cables of computers, TV racks, in control panel engineering, in automobile installation and in the electrical appliances industry for protection. It provides mechanical protection of cables and allows easy retrofit installation around already installed wires and cables. In addition, Co-flex PA6 provides protection against damage from marten and rodent bites.

Physical characteristics:

- material: polyamide 6
- temperature resistance range: -40 °C to +120 °C, short-term temperature resistance up to +150 °C
- non-flame propagating
- colour: black
- classification: 12454

Type	Cat. no.	10	14	20	23	37	45	70
Outside Ø mm		13.5	18.7	25.7	31.3	43.2	54.2	79.8
Inside Ø mm		8.8	13.2	20.2	23.9	32.5	43.1	66.0
Bend radius approx. mm*		55	75	105	125	170	170	300
Packaging in m		50	50	50	50	25	25	10
Colour: black	410. ... .00	..010..	..014..	..020..	..023..	..037..	..045..	..070..

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

Resealable Corrugated Conduits

Co-flex PP-UV – resealable, slit corrugated conduit



Light duty resealable, slit corrugated conduit, UV-stabilised, made of modified polypropylene, available in black. Light compressive strength, high temperature resistant and non-flame propagating. UV-resistant for up to 10 years.

Application:

Co-flex PP-UV is ideal for various installations outdoors. Its main fields of application are solar collectors, SAT units and photovoltaic power plants. Its advantages are the mechanical protection of cables, UV protection of cables and easy retrofit installation around already installed wires and cables. In addition, Co-flex PP-UV provides protection against damage from marten and rodent bites.

Physical characteristics:

- material: modified PP
- temperature resistance range: -40 °C to +135 °C, short-term temperature resistance up to 150 °C
- non-flame propagating
- colour: black
- Classification: 13434

Type	Cat. no.	10	14	20	23	37	45	70
Outside Ø mm		13.4	18.5	25.3	30.8	41.4	54.0	79.8
Inside Ø mm		8.4	12.5	19.2	23.4	31.0	42.7	67.5
Bend radius approx. mm*		70	95	130	155	205	190	375
Packaging in m		50	50	50	50	25	25	10
Colour: black	384. ... .00	..010..	..014..	..020..	..023..	..037..	..045..	..070..
Packaging in m		10	10	10	10	10	10	-
Colour: black	384. ... .02	..010..	..014..	..020..	..023..	..037..	..045..	-

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

Co-flex PP-white – resealable, slit corrugated conduit



Light duty resealable, slit corrugated conduit made of polypropylene, available in white. Light compressive strength, high temperature resistant and non-flame propagating.

Application:

Co-flex PP white is ideally suited for audio/HIFI systems, office wiring, shipbuilding, medical instruments, such as X-ray units and tomographs, hospital beds and the furniture industry. It provides mechanical protection of cables and easy retrofit installation around already installed wires and cables. In addition, Co-flex PP white provides protection against damage from marten and rodent bites.

Physical characteristics:

- material: PP
- temperature resistance range: -40 °C to +135 °C, short-term temperature resistance up to 150 °C
- non-flame propagating
- colour: white
- Classification: 13434

Type	Cat. no.	20						
Outside Ø mm		25.3						
Inside Ø mm		19.2						
Bend radius approx. mm*		130						
Packaging in m		50						
Colour: white	384. ... .10	..020..						

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

Insertion tool with handle



Application:

Insertion tool to feed wires and cables in Co-flex conduits and slit corrugated conduits. Available dimensions: NW 7.5 – NW 34.

Physical characteristics:

- material: PA6

Type	Cat. no.	Size	Colour
Insertion tool	490.90.003	7.5 - 34	black

All dimensions without tolerances are for reference only.

COS – fixing clamp with integrated ledge



Fixing clamp with integrated polyamide 6 ledge, available in black; zero halogen and non-flame propagating.

Application:

Fixing clamp to axially secure Co-flex conduits.

Physical characteristics:

- material: polyamide 6
- temperature resistance range: -40 °C to +120 °C, short-term temperature resistance up to +140 °C
- zero halogen
- colour: black

Type	Cat. no.	10	14	20	23	37	45
Conduit capacity in mm		13.0	17.8	26.0	32.0	42.7	53.6
for type		10	14	20	23	37	45
Packaging in pcs.		100	100	50	50	20	20
Colour: black	491.20. ...	..100	..140	..200	..230	..370	..450

Threaded two-piece connector for Co-flex

Threaded two-piece connector and two-piece locknut with Pg and metric threads made of polyamide 6, available in black, zero halogen, protection type IP43 and non-flame propagating.

Application:

Threaded two-piece connector and two-piece locknut, in particular for retrofit installations to connect Co-flex conduits to distributors and devices.

Physical characteristics:

- material: polyamide 6
- temperature resistance range: -40 °C to +120 °C, short-term temperature resistance up to +150 °C
- zero halogen
- colour: black



COV – threaded two-piece connector with Pg threads

Type	Cat. no.	10	14	20	23	37	45
Pg connecting thread		9	13.5	21	29	29	
Packaging in pcs. threaded connector + nut		100	100	50	50	25	
Colour: black	491.10. ...	..100	..140	..200	..230	..370	



Cofix – threaded two-piece connector with metric threads

Threaded connector	Cat. no.	10	14	20	23	37	45
Connecting thread metric x 1.5		M 16	M 20	M 25	M 32	M 40	M 50
Packaging in pcs.		100	100	50	50	25	25
Colour: black	491.10. ...	..102	..142	..202	..232	..372	..452



Nut	Cat. no.	10	14	20	23	37	45
Cofix nut metric x 1.5		M 16	M 20	M 25	M 32	M 40	M 50
Packaging in pcs.		100	100	50	50	25	25
Colour: black	491.12. ...	..101	..141	..201	..231	..371	..451



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

Resealable Oval Corrugated Conduits – PV-COOR



PV-COOR

PV-COOR is a two-piece resealable, slit oval corrugated conduit made of PP-UV for cable protection, UV-stabilised, non-flame propagating, black.

Application:

PV-COOR is ideal for installation outdoors. Its UV-resistance does not only provide mechanical protection but also protects the cables from UV-damage. The main fields of application are retrofit requirements for hydraulic and pneumatic hoses and supply lines in the fields of solar energy and photovoltaics.

Chemical properties:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Physical characteristics:

- material: PP-UV
- temperature resistance range: -40 to +135 °C, short-term temperature resistance up to +150 °C
- non-flame propagating
- UV-resistant

Type	Cat. no.	40x80
Outside Ø mm		95.0
Inside Ø mm		51.5
Packaging in m		20
Colour: black	384.480. ..	..00

PV-COOR Accessories



The ideal accessory to install perfect 90° bends

PV-COOR 90° angle elbow	Cat. no.	40x80
Packaging/quantity		10
Colour: black	491.408. ..	..01



The ideal accessory to install perfect 90° branches

PV-COOR T-distributor	Cat. no.	40x80
Packaging/quantity		10
Colour: black	491.408. ..	..02



The ideal accessory for a perfect connection of conduits

PV-COOR end cap	Cat. no.	40x80
Packaging/quantity		10
Colour: black	491.408. ..	..03

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

Resealable Oval Corrugated Conduits - COOR-flex

NEW



COOR-flex

COOR-flex is a two-piece resealable, slit oval corrugated conduit made of PP-MOD-BS for cable protection, non-flame propagating, white.

Application:
With its double wall-thickness, COOR-flex provides highest mechanical stability. The main fields of application are retrofit requirements for hydraulic and pneumatic hoses.

Chemical properties:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Physical characteristics:

- material: PP-MOD-BS
- temperature resistance range: -40 to +135 °C, short-term temperature resistance up to +150 °C
- non-flame propagating

Type	Cat. no.	40x80
Outside Ø mm		95.0
Inside Ø mm		51.5
Packaging unit/m		20
Colour: white	370.480. ..	..10

COOR-flex Accessories

NEW



The ideal accessory to install perfect 90° bends

COOR-flex 90° angle elbow	Cat. no.	40x80
Packaging/quantity		10
Colour: white	491.408. ..	..07

NEW



The ideal accessory to install perfect 90° branches

COOR-flex T-distributor	Cat. no.	40x80
Packaging/quantity		10
Colour: white	491.408. ..	..08

NEW



The ideal accessory for a perfect connection of conduits

COOR-flex end cap	Cat. no.	40x80
Packaging/quantity		10
Colour: white	491.408. ..	..09

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

All dimensions without tolerances are for reference only.

Use of conduits

Conduits must comply with the requirements of DIN EN 61386 (VDE 0605). These requirements determine the classification, identification and VDE 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), a minimum operating temperature of **-45 °C** (5), a maximum operating temperature of **+105 °C** (3) and **malleable** bending behaviour (2).

pressive strength (3), **medium** impact strength (3), a minimum operating temperature of **-45 °C** (5), a maximum operating temperature of **+105 °C** (3) and **malleable** 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, self recovering
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		
						6	+250 °C		
						7	+400 °C		

3 3 5 3 2

Installation location	DIN EN 61386-1 (minimum compressive strength)
Concrete	3
On plaster (exposed)	2
Cavity wall/on wood (inflammable materials)	2
Plaster (concealed)	2
Screed	2
Hot asphalt	3
Construction cavities	2
Suspended ceilings	2
Underground	3
Outdoors (UV-stabilised)	2

Not every conduit is suited for all installations. VDE 0100 part 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.

Note

Practical experience shows that the minimum requirements for the installation location "screed" do not meet mechanical stress requirements and should therefore be increased.

Circuit Integrity

Circuit integrity is a major concern for cable/wire manufacturers, but also for manufacturers of cable trays, fastening devices and electrical conduits. FRÄNKISCHE usually provides cable

manufacturers with samples for testing purposes upon request. They usually receive circuit integrity approval by an accredited certification body for the construction industry in the form of a general

appraisal certificate. General appraisal certificates are available from different manufacturers.

Contact

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Nexans Deutschland GmbH		E30	E60	E90	E30	E60	E90
Mr. Joachim Uttinger Sieboldstraße 10 90411 Nürnberg Tel.: +49(0) 911 5207-539 Fax.:+49(0) 911 5207-443	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		
Dätwyler Kabel+ Systeme GmbH		E30	E60	E90	E30	E60	E90
Mr Peter Pardeyke Auf der Roos 4-12 65795 Hattersheim Tel.: +49(0) 61 90 88 80-23 Fax.:+49(0) 61 90 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
Mr. Manfred Dittrich Siemensplatz 1 19057 Schwerin Tel.: +49(0) 385 6431 2858 Fax.:+49(0) 385 6431 2849	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		
Kabelwerk Eupen AG		E30	E60	E90	E30	E60	E90
Mr. Marko Ahn Karl-Kuck-Straße 3 52078 Aachen Tel.: +49(0) 241 92831-340	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 GmbH		E30	E60	E90	E30	E60	E90
Herr Christian Tausch Stahlbastr. 56 64560 Riedstadt-Goddelau Tel.: +49(0) 172 639 25 25	Staro Steck-ES	■	■	■	■	■	■
	Staro Gewinde-ES	■	■	■	■	■	■
	Staro Steck-ES-V	■	■	■	■	■	■
	Staro Gewinde-ES-V	■	■	■	■	■	■
	FPku-EM-F-H0 / LS0H	■	■	■	■	■	■

Chemical properties

Fluid	Percentage	PVC-U	PE-HD*	PP*	special plastic	
Medium	Concentration	DIN 8061	DIN 8075	DIN 8078	FFKu-EL-F-LS0H	FPKu-EM-F-H0
		Supplement 1	Supplement 1	Supplement 1	FFKuS-EM-F-LS0H	FPKu-EM-F-LS0H
Hydrochloric acid emissions	any	+	+	+	+	o
Sulphuric acid emissions	any	+	+	+	+	o
Liquid ammonia	TR	+	+	+	+	+
Gaseous ammonia	TR	+	+	+	+	+
Gasoline	H	+	+	o	o	o
Benzene	TR	-	o	o	o	
Beer	H	-	+	+	+	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	o	+
Hydrochloric acid	30%	+	+	+	+	+
Sulfuric acid	40%	+	+	+	+	+
Terpentine	TR	+	o	-	-	
Detergent	VL	+	+	+	+	o

Note: The information provided above applies for 20 SDgrC. The concentration (%) and the temperature must always be indicated 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

* polyolefines

Attention

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

Physical properties (DIN EN 61386)

Application and identification according to physical properties

Field of application	Product	Material	Colour	Possible types of installation										Code	see p.			
Light duty Conduits for low mechanical stress Minimum compressive strength 320N/5cm	isofix-EL-F	PVC-U	grey	■	■	■											22211	15
	FBY-EL-F	polyolefin	black	■	■	■											23322	11
	FFKu-EL-F	PVC-U	beige	■	■	■											22212	11
	FFKu-EL-F-LS0H	special plastic	black	■	■	■											23232	20
	FFKu-ReMo click	polyolefin	signal blue	■	■	■											23422	5
Medium Conduits for medium mechanical stress Minimum compressive strength 750N/5cm	FPKu-EM-F	PVC-U	grey	■	■	■		■	■								33411	14
	FPKu-EM-F-UV	modified PVC	white	■	■	■		■	■					■	■	■	33411	25
	FPKu-EM-F-LS0H	special plastic	grey	■	■	■		■	■								33541	19
	FPKu-EM-F-H0	special plastic	grey	■	■	■		■	■								33521	22
	FFKu-EM-F	PVC-U	grey	■	■	■		■	■								33412	12
	FFKuS-EM-F	PVC-U/PVC-P	grey	■	■	■	■	■	■								33412	13
	FFKuS-EM-F-105	special plastic	magenta	■	■	■	■	■	■								33532	13
	FFKuS-EM-F-LS0H	special plastic	black	■	■	■	■	■	■								33532	20
	FFKuS-POF net	PVC	blue lilac	■	■	■	■	■	■								33412	7
	FFKu-Smart net	polyolefin	blue lilac	■	■	■	■	■	■								33522	9
Heavy duty Conduits for high mechanical stress Minimum compressive strength 1250N/5cm	FPKu-ES-F-UV	modified PVC	grey/black	■	■	■		■	■								43411	24
	FPKu-ES-F	PVC-U	grey	■	■	■		■	■								43211	15
	Staro Steck-ES	steel	black/varnished	■	■	■		■	■	■							44561	29
	Staro Steck-ES-V	steel	hot-galvanised	■	■	■	■	■	■	■							44571	31
	Alu Steck-ES	aluminium	silver	■	■	■		■	■								44561	33
	FFKuS-ES-F-UV	modified PVC	black	■	■	■	■	■	■								43412	26
	FFS-ES	steel	silver	■	■	■		■	■	■							44562	28
	FFSK-ES-UV	steel/mod. PVC	black	■	■	■	■	■	■								44412	28
Very heavy duty Conduits for very high mechanical stress Minimum compressive strength 4000N/5cm	Staro Gewinde-ES	steel	black/varnished	■	■	■		■	■	■							55561	29
	Staro Gewinde-ES-V	steel	hot-galvanised	■	■	■	■	■	■	■							55571	31
	Alu Gewinde-ES	aluminium	silver	■	■	■		■	■								55561	33
	V2 Steck-ES	V2A	silver	■	■	■	■	■	■	■							55571	35
	V4 Steck-ES	V4A	silver	■	■	■	■	■	■	■							55571	35
H0 Conduits made of zero halogen insulating material	FPKu-EM-F-LS0H	special plastic	grey	■	■	■		■	■								33541	19
	FPKu-EL-F-H0	special plastic	black	■	■	■		■	■								22521	22
	FPKu-EM-F-H0	special plastic	grey	■	■	■		■	■								33521	22
	FFKu-EL-F-LS0H	special plastic	black	■	■	■		■	■								23232	20
	FFKu-EM-F-LS0H	special plastic	black	■	■	■	■	■	■								33532	21
	FFKuS-EM-F-LS0H	special plastic	black	■	■	■	■	■	■								33532	20
UV UV-resistant conduits	FPKu-ES-F-UV	modified PVC	grey/black	■	■	■		■	■								43411	24
	FPKu-EM-F-UV	modified PVC	white	■	■	■		■	■								33411	25
	FFKu-EM-F-UV	modified PVC	black	■	■	■	■	■	■								33412	25
	FFKuS-ES-F-UV	modified PVC	black	■	■	■	■	■	■								43412	26
	FFSK-ES-UV	steel/mod. PVC	black	■	■	■	■	■	■								44412	28
	Staro Steck-ES-V	steel	hot-galvanised	■	■	■	■	■	■	■							44571	31
	Staro Gewinde-ES-V	steel	hot-galvanised	■	■	■	■	■	■	■							55571	31
	V2 Steck-ES	V2A	silver	■	■	■	■	■	■	■							55571	35
	V4 Steck-ES	V4A	silver	■	■	■	■	■	■	■							55571	35
	Alu Steck-ES	aluminium	silver	■	■	■		■	■								44561	33
Alu Gewinde-ES	aluminium	silver	■	■	■		■	■								55561	33	
				Exposed installation	Concealed installation (in/under plaster)	Installation on wood	Underground installation	Installation in concrete	Engineering installation	Underfloor installation (bitumen, hot asphalt)	Under screed	Prefabricated construction	Installation outdoors					

Fire load value of products

Fire load value in kWh/m

Conduit name	DN 16	DN 20	DN 25	DN 32	DN 40	DN 50	DN 63
FBY-EL-F	0.50	0.598	0.830	1.159	1.525	1.952	2.989
FFKu-EL-F	0.167	0.261	0.339	0.484	0.639	0.806	1.001
FFKuS-EM-F	0.278	0.439	0.545	0.778	1.001	1.307	1.668
FFKuS-EM-F-105	0.868	1.211	1.676	2.190	3.229	3.694	5.688
FFKuS-ES-F-UV	0.389	0.584	0.751	1.123	1.446	1.89	2.391
FFKu-EL-F-LS0H	0.390	0.610	0.793	1.098	1.464	1.647	2.318
FFKuS-EM-F-LS0H	0.783	1.04	1.590	1.957	2.691	3.425	4.342
isofix-EL-F	0.334	0.473	0.667	–	–	–	–
FPKu-EM-F	0.489	0.683	0.862	1.277	1.668	2.224	3.248
FPKu-ES-F, FPKu-ES-F-UV	0.584	0.795	1.056	1.54	1.946	2.724	3.447
FPKu-EM-F-UV	0.489	0.683	0.862	1.277	1.668	2.224	3.248
FPKu-EM-F-H0, FPKu-EM-F-LS0H	0.545	0.817	1.09	1.393	2.024	2.802	3.542
FFKu-ReMo click	–	–	1.037	–	–	–	–
FFKu-Smart net	–	–	1.342	–	–	–	–
FFKuS-POF net	–	–	0.835	–	–	–	–

The values indicated in the table were calculated from heating values of 5.0 kWh/kg for PVC acc. to supplementary sheet 1 of DIN V 18230 part 1; 12.2 kWh/kg for PE/PP acc. to supplementary sheet 1 of DIN V 18230 part 1; 7.8 kWh/kg for special plastic acc. to supplementary sheet 1 of DIN V 18230 part 1. – We do not assume any responsibility for the accuracy of the information provided!



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- **claudia.pfister@fraenkische.de**

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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 unused conduits today, you can easily expand your electrical installations later. You save lots of time, money and effort!

We are happy to help you with your technical questions.

Prompt information can be obtained from our technical consultants at

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Other interesting sources of information

www.fraenkische-elektro.de
www.elektroinstallation2020.de

www.leerrohrberater.de
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Your connection to us

Division Director

Bernd Späth +49 9525 88-562
bernd.spaeth@fraenkische.de

Head of Export Sales

Andreas Wrzosok +49 (0)9525 88-8530
andreas.wrzosok@fraenkische.de

Export Sales

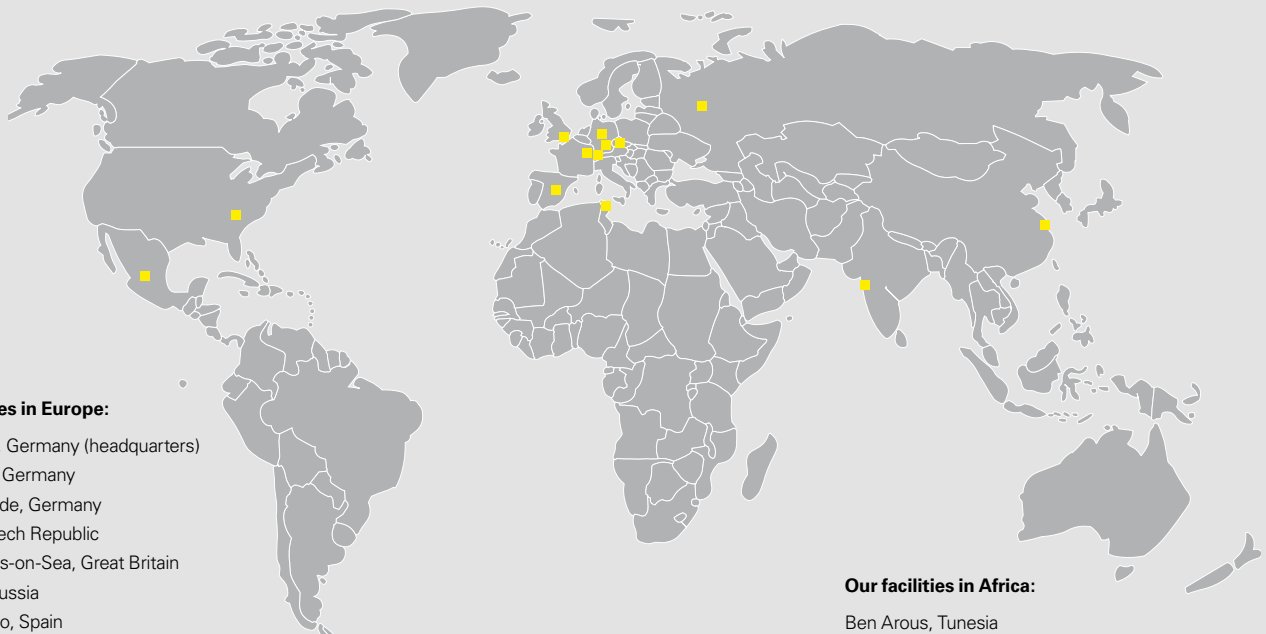
Tamara Schneider +49 (0)9525 88-416
tamara.schneider@fraenkische.de

Helene Mierau +49 (0)9525 88-417
helene.mierau@fraenkische.de

Petra Sieghörtner +49 (0)9525 88-724
petra.sieghoertner@fraenkische.de

Carmen Gahl +49 (0)9525 88-8620
carmen.gahl@fraenkische.de

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Our facilities in Europe:

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Moscow, Russia
Yeles/Toledo, Spain
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Torcy-le-Grand, France
Ebersbach/Fils, Germany
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Our facilities in Asia:

Anting/Shanghai, China
Pune, India

Our facilities in Africa:

Ben Arous, Tunisia

Our facilities in North America and Mexico:

Anderson, USA
Guanajuato, Mexico

FRÄNKISCHE is an innovative, growth oriented, medium-sized family-owned enterprise and industry leader in the design, manufacturing and marketing of technically superior corrugated pipe systems for drainage, electrical, building technology and industrial applications.

We currently employ about 2,200 people worldwide. Both our many years of experience and expertise in plastics

processing, our consulting services and the large array of products are highly valued by our customers.

FRÄNKISCHE is a third generation family owned business that was established in 1906 and is now run by Otto Kirchner. Today, we are globally represented with production sites and sales companies. The proximity to our customers enables us to develop products

and solutions that are perfectly tailored to our customers' needs. Our action and business philosophy focus on our customers and their needs and requirements for our products.

FRÄNKISCHE – Your partner for sophisticated and technologically advanced solutions.